

**A GUIDE TO
EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS LITERATURE
(1985-1989)**

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Abstract

We present an indexed guide to experimental high energy physics literature for the years 1985-89. No actual data are given, but approximately 3500 papers are indexed by Beam/Target/Momentum, Reaction/Momentum (including the final state), Final State Particle, and Accelerator/Experiment/Detector.

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1. Overview

This report is a guide to experimental particle physics papers issued during the years 1985-89. It is based on the *DOCUMENTS* database, maintained on the BDMS/4 system under VMS at Serpukhov. The database is accessible from many sites around the world.

Papers covered in this report are those containing *new experimental data*. Thus a theoretical paper that extracts new information from an experiment would be included. No actual data are presented in this report. We include papers published or preprinted during the years 1985 through 1989. Papers appearing earlier may be found in the previous edition of this report.¹

This Introduction describes how to use this book and the *DOCUMENTS* database. Section 2 discusses the scope of this compilation, and the sources of information. Section 3 discusses the particle naming scheme we use. Section 4 tells how to use this book. Section 5 tells how to access the *DOCUMENTS* database on which this book is based. Section 6 lists some other publicly accessible databases. Section 7 gives a short graphical summary of the contents of our database.

The body of this report is organized as follows: Each paper is referenced by an "ID" giving the first author's name and the year of first preprinting or publication, e.g., Smith 84. The first *Index* is a complete list of all these ID's, each with the title and preprint number and/or publication reference.

Following this are four other *Indices*. When you find the ID of a paper in any of these indices, you can then find the full reference in the Index of ID's. The Beam/Target/Momentum Index lets you locate papers by beam particle, target particle, and beam momentum (or center-of-mass energy). The Reaction/Momentum/Data-Descriptor Index, lets you locate papers by both the initial and final state of the reaction. The Final-State-Particle/Decay Index directs you to papers by a specific particle and its decay in the final state of a reaction. Finally, the Accelerator/Experiment/Detector Index organizes papers according to the facility at which the experiment was done.

Following the Indices are four *Vocabularies*. Our "spelling conventions" for particle names are given in the Particle Vocabulary. We use the same nomenclature for particles as is used in the "Review of Particle Properties,"² as explained in Section 3 of this Introduction, and some further general rules are given in Section 4.

Names and abbreviations assigned to accelerators and detectors appear in the Accelerator and Detector Vocabularies. The Data Descriptor Vocabulary contains abbreviations used in the Reaction/Momentum/Data Descriptor Index.

Please bring any errors and omissions you may find to our attention.

2. Scope of this Compilation

The starting point for our compilations is bibliographic data from a scan of the literature available at Serpukhov. Additional bibliographic data comes from the SLAC-SPIRES *HEP* database, a joint project of the SLAC and DESY libraries. Then the INIS database is used to check for completeness. From the full list of papers in these databases, we then select those with experimental data. All decisions are made by a physicist: in cases of uncertainty about the "newness" or "originality" of data, we include the paper.

"Data" means not only the obvious experimentally measured quantities, but also some derived quantities, such as partial-wave phase shifts. We exclude instrumentation papers and studies of properties of the cosmic-ray flux itself (although cross sections and other properties of reactions or particles measured in cosmic-ray experiments are included). We also exclude papers mostly of interest to nuclear physicists, such as nuclear-level or other nuclear-structure measurements. There are of course "gray" areas: many elementary particle physics experiments measure scattering phenomena off nuclei. Heavy-ion experiments are also frequently of interest to elementary particle physicists. In these areas, we generally include papers that report more than just nuclear structure parameters and that involve beam energies above about 1 GeV/nucleon, or that report measurements on light nuclear targets (such as the isotopes of hydrogen, helium, or lithium). Other papers are decided on a case-by-case basis by a physicist.

A separate publication, "Current Experiments in Elementary Particle Physics," LBL-91 Revised (1989)³ is also available, covering current, approved experiments at the major world accelerators. It includes a spokesperson index and summaries of fixed-target beams available at many accelerators.

3. The Names of Hadrons

3.1 Introduction

In the 1986 edition of the "Review of Particle Properties,"⁴ we introduced a new naming scheme for hadrons. The virtues sought after were as follows. The symbols were to be as few and as simple as possible, with those already in common use retained where possible; the symbols were to convey unambiguously the important quantum numbers of the particles they name; and the quark model was to guide the whole scheme, without limiting it. Some compromise between simplicity and long-established usage was unavoidable.

Changes from older terminology affected mainly the heavier mesons made of *u*, *d*, and *s* quarks. Otherwise, the only important change was that the F^\pm became the D_s^\pm . None of the lightest pseudoscalar or vector meson names changed, nor did those of the $c\bar{c}$ or $b\bar{b}$ mesons (we do, however, now use χ_c for the $c\bar{c}$ χ states), nor did any of the established baryons.

We follow custom and use spectroscopic names [e.g., $\Upsilon(1S)$] as the primary name for most of those c , Υ , and χ states whose spectroscopic identity is known. We continue to use the nominal mass form [e.g., $\Upsilon(9460)$] as an alternate or as the primary name when the spectroscopic identity is not known.

3.2 "Neutral-flavor" mesons ($S = C = B = T = 0$)

Table 1 shows the naming scheme for mesons having the strangeness and all heavy-flavor quantum numbers equal to zero. The naming scheme is designed for all mesons, whether ordinary or exotic. First, we assigned names to those states with quantum numbers compatible with being $q\bar{q}$ states. The rows of the Table give the possible $q\bar{q}$ content. The columns give the possible parity/charge-conjugation states, $PC = --, +-, --, \text{and } ++$; these combinations correspond one-to-one with the angular-momentum state $^{2S+1}L_J$ of the $q\bar{q}$ system being

$$^1(L \text{ even})_J, \ ^1(L \text{ odd})_J, \ ^3(L \text{ even})_J, \ \text{or} \ ^3(L \text{ odd})_J.$$

The entries in the Table give the particle symbol. The spin J is added to the symbol as a subscript except for pseudoscalar and vector mesons. Then the mass is added in parentheses for any meson that decays strongly; however, for the lowest-mass meson resonances, we sometimes shorten the names [e.g., ρ for $\rho(770)$].

Table 1. Symbols for mesons in which the strangeness and all heavy-flavor quantum numbers are equal to zero.

$q\bar{q}$ content	J^{PC}			
	0^{-+}	1^{+-}	0^{-+}	0^{++}
	2^{-+}	3^{+-}	2^{-+}	1^{++}
	$^{2S+1}L_J$			
	$^1\text{even}_J$	$^1\text{odd}_J$	$^3\text{even}_J$	$^3\text{odd}_J$
$u\bar{d}, d\bar{u},$ $d\bar{d} - u\bar{u}$	π	b	ρ	a
$d\bar{d} + u\bar{u}$	η, η'	h, h'	ω, ϕ	f, f'
$c\bar{c}$	η_c	h_c	ψ^\dagger	χ
$b\bar{b}$	η_b	h_b	Υ	χ_b
$t\bar{t}$	η_t	h_t	θ	χ_t

[†] The $J/\psi(1S)$ replaces the $J/\psi(1S)$.

Experimental determination of the mass, quark content (where relevant), and quantum numbers I, J, P , and C (or G) of a meson thus fixes its symbol. Conversely, these properties may be inferred unambiguously from the symbol.

If the main symbol cannot be assigned because the quantum numbers are unknown, X is used. Sometimes it is not known whether a meson is mainly the isospin-0 mix of $u\bar{u}$ and $d\bar{d}$ or is mainly $s\bar{s}$; a prime (or symbol ϕ) may be used to distinguish two such mixing states.

Names have been assigned for the anticipated $t\bar{t}$ mesons.

Gluonium states or other mesons that are not $q\bar{q}$ states are, if the quantum numbers are *not* exotic, to be named just as the $q\bar{q}$ mesons are named. Such non- $q\bar{q}$ states will probably be difficult to distinguish from $q\bar{q}$ states and will likely mix with them; that is, our scheme makes no attempt to distinguish the "mostly gluonium" or "mostly $q\bar{q}$ " nature of a particle.

An "exotic" meson with quantum numbers that a $q\bar{q}$ system cannot have, namely $J^{PC} = 0^{-+}, 0^{+-}, 1^{-+}, 2^{+-}, 3^{-+}, \dots$, will use the same symbol as would an ordinary meson that has all the same quantum numbers as the exotic meson except for the C parity. Then a caret or "hat" is added to the symbol. For example, an isospin-1 0^{-+} meson would be a $\hat{\pi}$, an isospin-0 1^{-+} meson would be an $\hat{\omega}$.

The results of this scheme are as follows. None of the lowest-mass pseudoscalar or vector mesons (π, η , and η' ; ρ, ω , and ϕ) changed names, nor did any of the $c\bar{c}$ or $b\bar{b}$ mesons (except for χ becoming χ_c). Established mesons whose names changed slightly are:

Old name	New name	Old name	New name
$H(1170)$	$h_1(1170)$	$A_2(1320)$	$a_2(1320)$
$B(1235)$	$b_1(1235)$	$f'(1525)$	$f'_2(1525)$
$A_1(1260)$	$a_1(1260)$	$\omega(1670)$	$\omega_3(1670)$
$f(1270)$	$f_2(1270)$		

Established mesons whose names changed completely are:

Old name	New name	Old name	New name
$S(975)$	$f_0(975)$	$A_3(1670)$	$\pi_2(1670)$
$\delta(980)$	$a_0(980)$	$g(1690)$	$\rho_3(1690)$
$D(1285)$	$f_1(1285)$	$\theta(1720)$	$f_2(1720)$
$\epsilon(1400)$	$f_0(1400)$	$X(1850)$	$\phi(1850)$
$E(1420)$	$f_1(1420)$	$h(2030)$	$f_3(2050)$
$\iota(1440)$	$\eta(1440)$		

Note that the $S(975)$, $D(1285)$, $\epsilon(1300)$, $E(1420)$, $\theta(1690)$, and $h(2030)$ all became f mesons. The new scheme reveals that all have $PC = ++$ and are $^3(L \text{ odd})_J$ states.

3.3 Mesons with nonzero S, C, B , and/or T

A meson with nonzero S, C, B , and/or T cannot be an eigenstate of charge conjugation. Also, in each such

meson one of the quarks must be heavier than the other. The naming rules are:

- The main symbol is an upper-case italic letter indicating the heavier quark as follows:
 $s \rightarrow \bar{K} \quad c \rightarrow D \quad b \rightarrow \bar{B} \quad t \rightarrow T$.
- If the lighter quark is not a u or a d quark, its identity is given by a subscript.
- If the spin-parity is in the “normal” series, $J^P = 0^+, 1^-, 2^+, \dots$, a superscript “*” is added.
- The spin is added as a subscript unless the meson is a pseudoscalar or a vector.

Thus the pseudoscalar and vector K, K^*, D, D^* , and B mesons did not change names. Established mesons whose names did change were:

Old name	New name	Old name	New name
$Q_1(1270)$	$K_1(1270)$	$L(1770)$	$K_2(1770)$
$Q_2(1400)$	$K_1(1400)$	$K^*(1780)$	$K_3^*(1780)$
$\kappa(1430)$	$K_0^*(1430)$	$K^*(2045)$	$K_4^*(2045)$
$K^*(1440)$	$K_2^*(1440)$	F	D_s

Most notably, the F (the $c\bar{s}$ state) changed to D_s . However, with the prospect of B_s, B_c, T_s , and similar mesons, there was no consistent and simple alternative. The rules can lead to cumbersome symbols, such as D_{s2}^* , but such particles are unlikely to be often seen.

3.4 Baryons

No change has been made to the symbols $N, \Delta, \Lambda, \Sigma, \Xi$, and Ω that have been used 25 years for the baryons made of light quarks (u, d , and s). These symbols indicate the isospin and quark content, as do the symbols used for the baryons containing one or more heavy quarks (c, b , and t quarks). The following system was invented earlier and independently by Hendry and Lichtenberg and by Samios. The rules are:

- Baryons with *three* u and/or d quarks are N 's (isospin 1/2) or Δ 's (isospin 3/2).
- Baryons with *two* u and/or d quarks are Λ 's (isospin 0) or Σ 's (isospin 1). If the third quark is a heavy quark (not an s quark), its identity is given by a subscript. This nomenclature was already used for the $\Lambda_c(2285), \Sigma_c(2455)$, and $\Lambda_b(5500)$.
- Baryons with *one* u or d quark are Ξ 's (isospin 1/2). One or two subscripts are used if one or both of the remaining quarks are heavy: Ξ_c, Ξ_{cc}, Ξ_b , etc.
- Baryons with *no* u or d quarks are Ω 's (isospin 0) with subscripts indicating any heavy-quark content.

In short, the total number of u and d quarks together with the isospin determine the main symbol, and subscripts indicate any content of heavy quarks. A Σ always has isospin 1, an Ω always has isospin 0, etc.

4. Using this Compilation

Each paper is assigned a unique “ID,” comprised of the first author’s name and the date of the first preprinting or publication. In case of duplicates, we append a letter “B,” “C,” etc., as in

Jones 84
 Jones 84B
 Jones 84C.

The maximum length of the ID is 16 characters, so long author’s names are truncated.

All references for the paper corresponding to an ID are given in the ID/Reference/Title Index. When a paper has been preprinted and published, both references are given. In these cases, the year in the ID, which is usually that of the preprint, may not match the year of the published reference. In a very few cases, the first author of the preprint may not be the same as that of the publication, in which case the ID usually reflects the preprint’s first author.

To see a paper’s full author list or to search for a set of papers by the name of one or more authors, one may query the *DOCUMENTS* or *HEP* databases.

The first page of each index explains its use. It is worthwhile to understand a few of our conventions.

- Some “particle” names actually represent groups of particles. For example,
 - * “X” is used for inclusive measurements or, if used as the only particle in the final state, for total cross-section measurements.
 - * “(vees)” means *zero or more* unspecified neutral vees,
 - * “vee(s)” means *one or more* unspecified neutral vees, and
 - * “vees” means *two or more* of the same.
 - * “Mult[charged-hadron]” means a *collection of reactions* for which the multiplicity distribution of charged hadrons has been measured.
 - * “Inelastic” means a sum over all inelastic final states.
 - * “Jet” means a jet of particles, treated as a single entity.
 - * “0 γ ” means final states in which the occurrence of photons has been excluded.
- In using the computer database, all antiparticles commonly written with a bar over the name are spelled with the letters “BAR” appended to the particle name. Thus, \bar{K} BAR, $\bar{\Lambda}$ BAR/CBAR-, etc.
- Particles tend to be encoded in the same language the experimenters used, leading to some inevitable ambiguity. For example, “charged” in one paper may be called “charged-hadron” in another paper.
- Reactions are listed in the shortest form possible. Identical particles are grouped together, so the reaction $\pi^- p \rightarrow \pi^+ \pi^+ \pi^- \pi^- \pi^- p$ appears as $\pi^- p \rightarrow p 2\pi^+ 3\pi^-$.

5. Accessing the IHEP DOCUMENTS Database

Anyone who has an account on VXCERN can directly access the IHEP databases, including *DOCUMENTS*. (See the subsection on 'Databases under VMS (at CERN)' for a list of the other databases.)

Otherwise, remote interactive access can be achieved from other VAXes with DECNET access to VXCERN (where the databases themselves reside). The remote software (20,000 blocks) can be obtained from either VXCERN::YGSCD or LBL::PDG.

In the following description, words in Typewriter Font must be typed as given. Only the letters in UPPER CASE are necessary and these must be entered in upper case. Words in *italics* in brackets < ... > are "variables" for which the user substitutes an appropriate value, again in upper case.

Access to the IHEP-CERN databases can then be initialized by the system manager (as is done on VXCERN) or by having each user type:

```
@disk: [directory.COMPAS.BDMS.COM]BDMSINI
(For example, on the CSA cluster at LBL, substitute
DISK$PHYSICS00 for 'disk' and WAGMAN for 'directory'.)
To enter the system and obtain general information,
type:
```

```
PPDS
```

or, in particular (to select *DOCUMENTS*), type:

```
PPDS DOCUMENTS
```

- For a short explanation of the database, type:
HELpbase
- For a list of database commands, type:
?
- For an explanation of a particular database command, type:
?<command-word>
(e.g., ?FInd, ?HELpbase, ??)
- To see the record structure and names of key data elements for searching, type:
FDT
- To browse the index of a key data element, type:
INdEx, <key data element name>
(e.g., INdEx, AC)

The following are typical examples of the search command FIND. Notice the use of the '**' to terminate each search statement and the use of the ';' to separate data elements. Previous search results can be combined with a current search by use of 'set numbers':

```
FInd AC=BNL;**
FInd AC=BNL; OR AC=BONN;**
FInd (1) and RE=PI+ P;**
FInd (1) and (2) **
```

The last example combines the results of two searches labelled SET (1) and SET (2). Notice that ';' is *not* used when searching for 'SETS'. Each successful search produces a list of all previous SET numbers along with

the search command. Enter DIR, to get a list of these SET numbers and commands.

- To do a truncated search:
FInd DE=HBC/;**
Finds all detectors that begin with HBC.
- To do a string search:
FInd DE/C=BC;**
Finds all detectors that have BC anywhere in the name.
- The following examples are WRONG:
FInd AC BNL;** (Error: no '=')
FInd AC=BNL** (Error: no ';')
FInd AC=BNL OR AC=BONN;**
(Error: no ';' after BNL)
FInd AC=BNL OR BONN;**
(Error: no ';' and no 'AC=')
- To see the results of a search with key data element names, type:
LIST
LIST, AC, RE, SC. (for individual data elements)
- Or for an attractive listing, type:
DOCUMENT then LOOKfile
- To save the results of a search in a file, type one of the following:
DOCUMENT
DUMP
PRINT

The results are stored in files DOC.DOC, DOC.DUM, or DOC.PRN respectively. The first file contains a user-friendly listing, the second one contains a highly compressed dump of each record (with data element and value), and the third one is a line-by-line decompressed version of the second file. Another file automatically created, DOC.AUD, contains a history of your commands.

The searchable information includes two groups of key data elements:

BIBLIOGRAPHIC: ID (short code—SC), references, date of document (year), authors and affiliations, and experiment number.

TOPICAL: beam particle, target particle, reaction, particle in the final states of reactions, momentum in initial states, type of data obtained, particle whose property has been measured, accelerator and/or detector, and initial state polarization. It is possible to construct complex queries including any set of key data elements.

6. Other Related Databases

6.1 Databases under VMS (at CERN)

Large user-friendly databases are now available to anyone with DECNET access to VXCERN by using the commands PPDS DOCUMENTS, PPDS EXPERIMENTS, etc. (See the section on 'Accessing the IHEP *DOCUMENTS* Database' above.) They are maintained by the Serpukhov COMPAS group and the CERN-HERA group

with input from the world-wide Particle Data Group collaboration. They are managed by BDMS/4, a menu-driven database management system with on-line help information. This system consists of:

- the archival databases *DOCUMENTS*, *EXPERIMENTS*, and *REACTIONS*,
- the evaluated data compilations *PP* (Particle Properties) and *CS* (integrated reaction cross sections), and
- the supplementary database *VOCABULARY* (the vocabulary used by the other databases).

The *DOCUMENTS* database contains information extracted from experimental papers (but no actual data). It covers 1974 to the present with earlier papers as far back as 1936.

The *EXPERIMENTS* database contains information in the *DOCUMENTS* format extracted from laboratory proposals. It covers 1961 to the present.

The *REACTIONS* database contains actual physics data extracted from experimental papers. It covers 1952 to the present.

The *PP* database contains information from the "Review of Particle Properties" Summary Tables.²

The *CS* database contains data from CERN-HERA, UCRL, and LBL cross-section compilations. All data are double checked. It is regularly updated from the *REACTIONS* database. It covers 1950 to the present.

These databases (except for *CS*) overlap in large part those maintained at SLAC, where they are called *EXPERIMENTS*, *DATAGUIDE*, *REACTIONS*, and *PARTICLES*, respectively. (See the next subsection.) They are not, however, even when titled the same, identical to the SLAC databases. For example, the *PP* database contains only the Summary Table information from the "Review of Particle Properties"² instead of the Full Listings which are available in the SLAC database *PARTICLES*. As another example, the *DATAGUIDE* database at SLAC is out-of-date and will eventually be replaced with data taken from *DOCUMENTS*.

6.2 Databases under SLAC-SPIRES

SLAC and the Berkeley and United Kingdom Particle Data Groups, in collaboration with other groups and institutions, maintain several particle physics databases on SLAC's IBM computer in the SPIRES database management system. For detailed information and examples of their use, see the "User's Guide"⁵ available from the Berkeley Particle Data Group, and the "Search Guide to HEP" available from the Library, SLAC, P.O. Box 4349, Stanford, CA 94309, USA. Or contact Louise Addis at SLAC: ADDIS@SLACVM, phone (415) 926-2411.

The *HEP* database contains bibliographic information on particle physics papers (journal articles, preprints, reports, theses, etc.). It covers 1974 to the present, is maintained by the SLAC Library in collaboration with the DESY HEP Index Group, and is updated daily. It is searchable by author, institution, title, topic, report number, citation, and other bibli-

ographic items. It is used to produce the biweekly "Preprints in Particles and Fields."

The *DATAGUIDE* database was used to produce the previous edition of this report.¹ It covers 1976 to 1985 (thus is out-of-date) and will eventually be replaced by a *DOCUMENTS* database maintained by the Serpukhov COMPAS Group and the Berkeley PDG. It is searchable by reaction, lab momentum, c.m. energy, particle studied, accelerator, detector, and other items. The previous edition¹ tells how to access and use it.

The *PARTICLES* database contains the Full Listings from the "Review of Particle Properties,"² but no Particle Properties Summary Tables or Miscellaneous Tables, Figures, and Formulae. It is maintained by the Berkeley PDG in collaboration with the entire authorship of the "Review." It is updated around April each year. It is searchable by particle and particle property (e.g., mass, lifetime, etc.).

The *REACTIONS* database contains numerical data on reactions: differential and total cross sections, structure functions, polarization measurements, and many other items from most current aspects of experimental particle physics. It covers 1978 to the present. It is compiled by the United Kingdom Particle Data Group (University of Durham and Rutherford Appleton Lab) in collaboration with the Serpukhov COMPAS Group. It is updated approximately annually, and is searchable by first author, reference, reaction, lab momentum, quantity measured, and final-state particle.

The *EXPERIMENTS* database contains summaries of approved experiments at the major laboratories. It covers approximately 1975 to 1989, with coverage since 1980 being more complete. It is maintained by the Berkeley PDG in collaboration with correspondents at various labs and is updated periodically. It is searchable by experiment number, author, accelerator, detector, reaction, beam momentum, journal paper, and other items. The report "Current Experiments in Elementary Particle Physics,"³ is produced from it.

The *CONF* database contains names and dates of past and future conferences of interest to particle physicists.

The *HEPNAMES* database has electronic-mail addresses of many people working in high-energy physics.

The *INST* database has addresses (including phone and fax numbers) of high-energy physics institutions.

6.3 QSPIRES Access to SLAC-SPIRES

People without a SLAC computing account can use QSPIRES (see 'NOTE' below) to access the databases at SLAC either interactively via BITNET using the 'tell' command ('send', 'bsend', or a similar command on some systems) or using electronic mail.

Here is an interactive search on HEP; the query is refined as QSPIRES sends responses to your screen:

```
tell QSPIRES@SLACVM FIND TITLE E+ E-
(response)
```

```
tell QSPIRES@SLACVM AND Z0
(response)
tell QSPIRES@SLACVM AND DATE 1988
(response)
```

To receive the search result on your screen (≤ 10 records):

```
tell QSPIRES@SLACVM OUTPUT (TYPE
```

To receive the search result instead as electronic mail:

```
tell QSPIRES@SLACVM OUTPUT PRINT BRIEF
```

You may combine search criteria in a single command (FIND TITLE HADRON AND PION AND DATE 1988), but the command 'OUTPUT PRINT BRIEF' must be separate. Also note that a QSPIRES search defaults to the HEP database. To search another database, like CONF:

```
tell QSPIRES@SLACVM FIND PLACE VIENNA (IN CONF
```

```
tell QSPIRES@SLACVM OUTPUT PRINT BRIEF
```

or tell QSPIRES@SLACVM OUTPUT (TYPE

Or to access the electronic version of the "Review of Particle Properties" (results always being returned as mail):

```
tell QSPIRES@SLACVM
```

```
EXPLAIN PARTICLES (IN PARTICLES
```

```
tell QSPIRES@SLACVM
```

```
FIND PP ETA MODES (IN PARTICLES
```

For the HEPNAMES and INST databases, you may use the special short-cut searches:

```
tell QSPIRES@SLACVM WHOIS ARMSTRONG.B
```

```
tell QSPIRES@SLACVM WHEREIS FERMLAB
```

If your system does not support interactive BITNET communication or is not on the BITNET network, send electronic mail to one of the following:

For BITNET:

```
QSPIRES AT SLACVM
```

For non-LBL DECNET:

```
LBL::"QSPIRES@SLACVM.BITNET"
```

For LBL DECNET:

```
ST%"QSPIRES@SLACVM.BITNET"
```

For Internet:

```
QSPIRES%SLACVM.BITNET@LBL.GOV
```

as in the examples above. You **must** remove the 'tell QSPIRES@SLACVM' from all messages:

```
FIND PLACE VIENNA (IN CONF
```

Each mail message must contain **only one line**, and the mail 'subject line' must be blank. QSPIRES will send its responses as mail. For other networks, contact your local system manager.

For more information, you can send electronic mail to HEPNAMES@SLACVM and request material on the QSPIRES commands. You can get the 'HELP' file by mailing the command 'HELP' to QSPIRES@SLACVM.

• **NOTE:** Use of QSPIRES is free. Anyone may use the special short-cut searches for the HEPNAMES and INST databases. Other use of QSPIRES requires that your specific computer node be registered with SLAC: an individual account is **not** required. Send mail to QSPI@SLACVM for questions about node registration.

6.4 SPIRES HEP Databases at other Institutions

SLAC/DESY HEP and several of the other databases mentioned above are available on SPIRES at DESY, KEK, and Kyoto University, RIFP. Clone copies of HEP are kept current by nightly updates.

Contacts at these institutions are:

DESY - Hartmut Preissner (L00HTP@DHHDESY3);

KEK - Y. Miura (MIURA@JPNKEKVM);

Kyoto University, RIFP - K. Aoki (AOKI@JPNRIFP).

Kyoto also operates a 'remote SPIRES' for Japan.

6.5 The CERN Preprint Database

CERN maintains a database of high-energy physics preprints, *PREP*, similar to the SLAC/DESY HEP database. (CERN proposes adding journal articles, making their database comparable in scope to *HEP*.) For information on QALICE, a QSPIRES-like facility for accessing this database, contact Maja Gracco (MGR@CERNVM).

The *PREP* database will also run on an IBM PC (or compatible) using Micro CDS/ISIS, an information storage and retrieval system developed by UNESCO. The system is call MicroPREP and is intended for use in countries without direct access to BITNET or other electronic mail capabilities. For further information, contact Alec Hester, CERN Scientific Information Service, CH-1211 Geneva 23, Switzerland.

6.6 The Durham-RAL Particle Physics Databases

These databases contain compilations of experimental particle physics data (e.g., reaction cross sections, polarizations, etc.) and may be searched interactively using VM/CMS on both the Rutherford Appleton Laboratory (RAL) and CERN central computers. The topics include:

- two-body (and quasi-two-body) reactions;
- hadron and photon one- and two-particle inclusive distributions;
- lepton-produced inclusive data (i.e., deep inelastic scattering, structure functions, etc.);
- data from e^+e^- annihilations.

A subset of the SLAC/DESY HEP literature-searching guide (from 1980 onwards) is linked to the reaction data to inform users when new data is available. Also available are the *EXPERIMENTS* and *PARTICLES* databases from the SLAC system. (See above.)

The databases run under the Berkeley Database Management System and are menu-driven with full on-line help information for easy use. They can be accessed by anyone having network access to the RAL or CERN computers. For PSS access to RAL, the relevant address is 23422351919169, then .2) — a guest account, PDG (password HEPDATA), is available at RAL for those without a CMS account. An EXEC file, HEPDATA, resident on the user-disk (UDISK), gives interactive access to the databases. The data are retrieved using simple keyword-based searches, and resulting data records can be listed on the terminal, sent

to a printer, or transferred to the user's own machine as desired.

To insure that the databases are current, experimentalists are urged to send their data to the compilers as soon as they are available.

For more information or a user guide (1988 edition), contact Mike Whalley at Durham University, South Rd., Durham City DH1 3LE, England (MRW@UKACRL or MRW@CERNVM) or Dick Roberts at Rutherford Appleton Lab, Chilton, Didcot, Oxon. OX11 0QX, England (RGR@UKACRL). At CERN, user guides may be obtained from Alec Hester of the CERN library (HES@CERNVM).

7. Some History

We present a few figures showing the development of major accelerator centers and a historical perspective of accelerator usage. The presentation is three-fold. Figure 1 presents the total publication rate in worldwide particle physics from the very beginning, as it reflected in the *DOCUMENTS* and *REACTIONS* databases. Figures 2 through 5 show cumulative curves of major laboratories' contributions to the literature. Figures 6 through 10 show the evolution of accelerator usage by home experimental groups (i.e., the number of journal papers generated by experiments involving home accelerators divided by the total number of journal papers generated by that laboratory).

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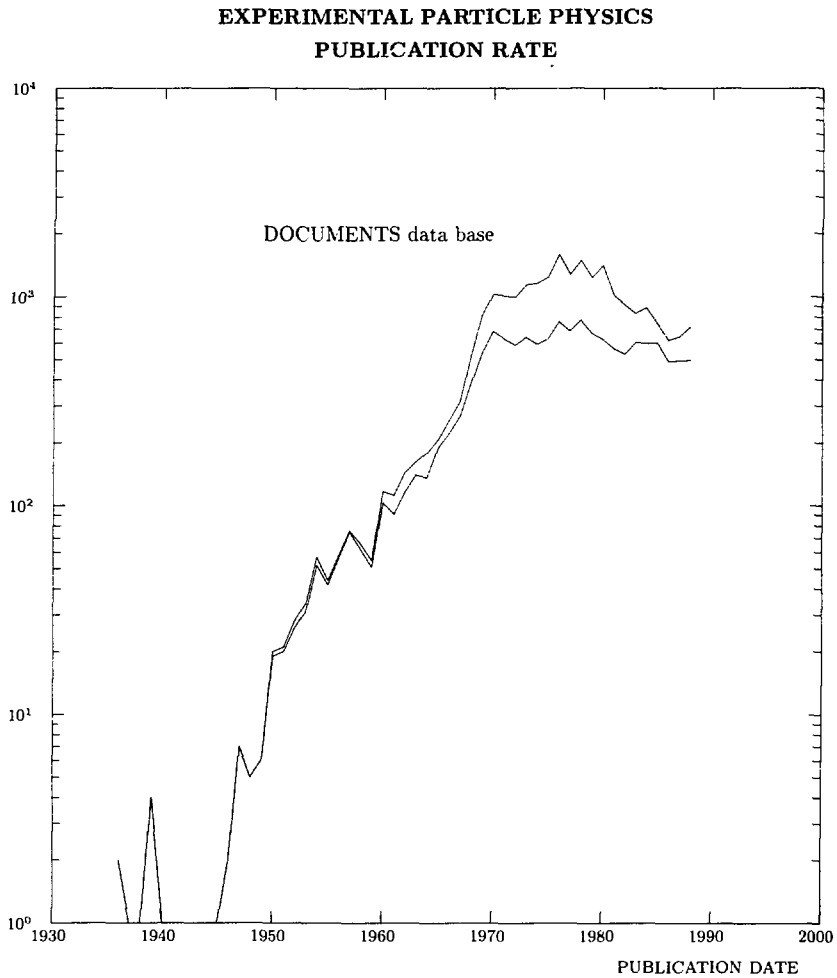


Fig. 1. The number of experimental papers produced each year. The lower curve gives the number of journal papers, and thus doesn't include unpublished preprints.

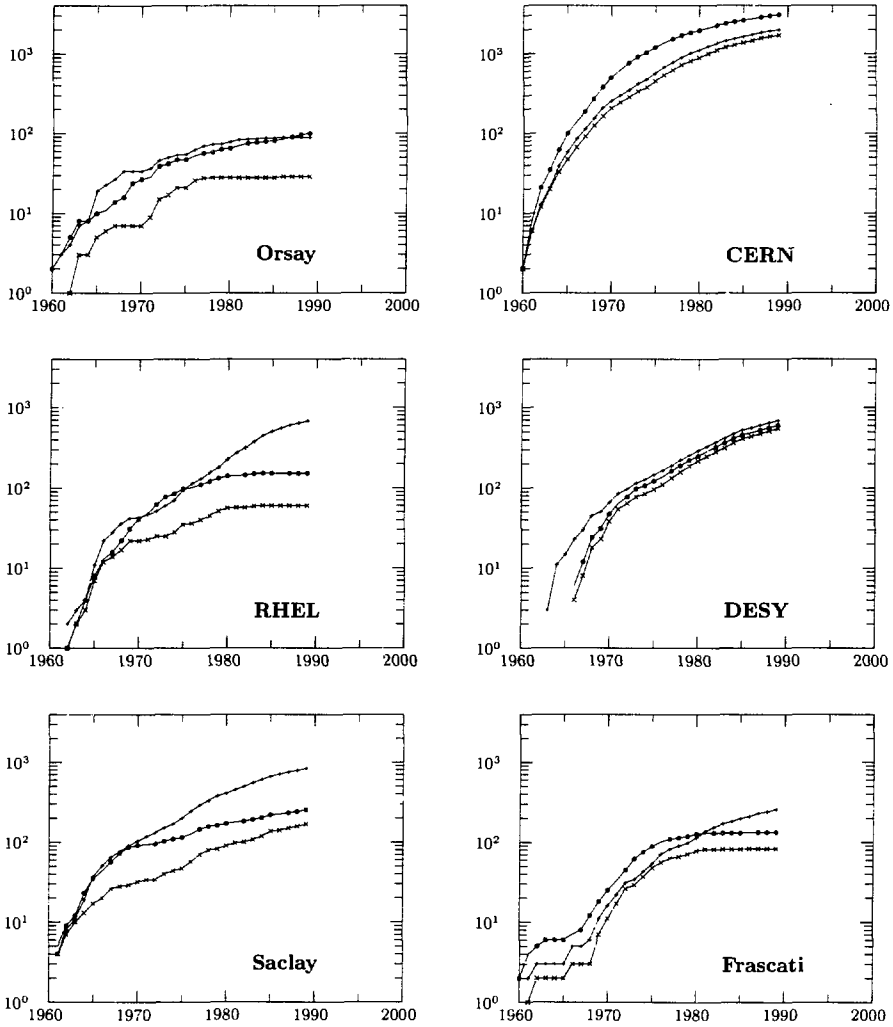


Fig. 2. The cumulative number of papers from major European accelerator laboratories. A + indicates papers with authors from the laboratory, a • indicates papers on data taken at an accelerator at that laboratory, and an x indicates papers both with authors from the laboratory and data from its accelerator(s).

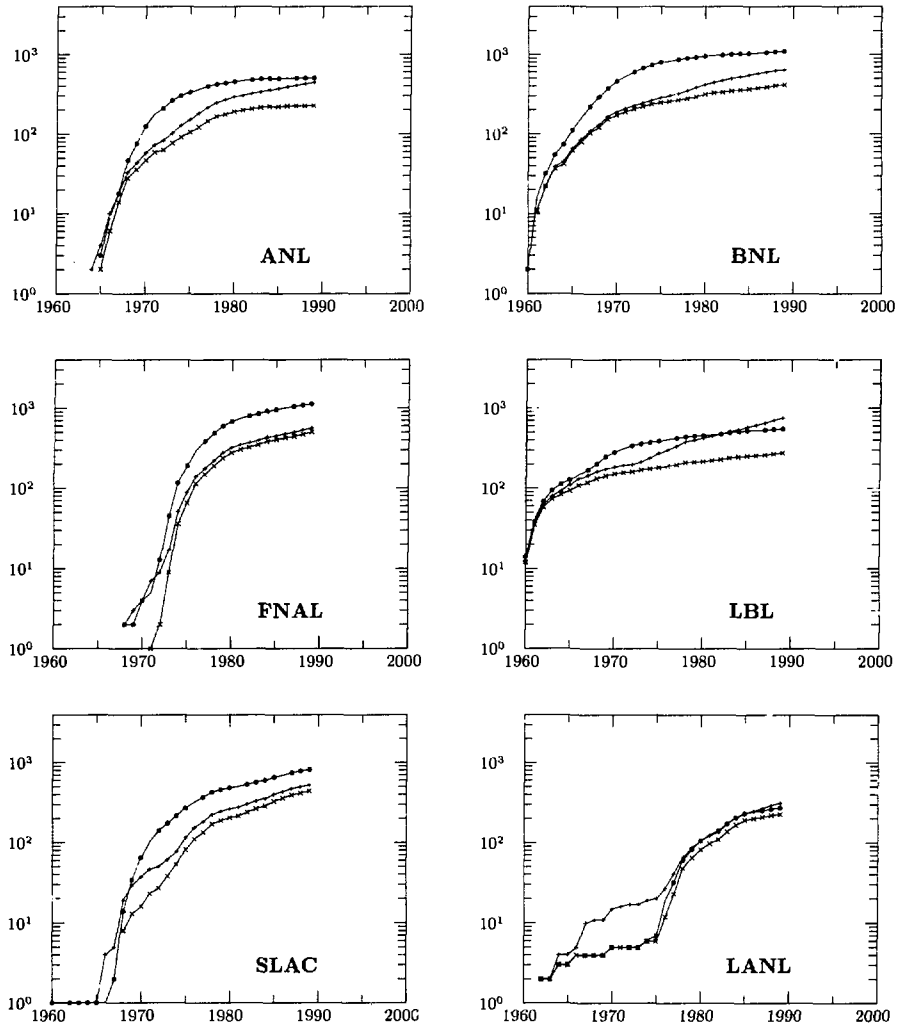


Fig. 3. The cumulative number of papers from major USA accelerator laboratories. A + indicates papers with authors from the laboratory, a • indicates papers on data taken at an accelerator at that laboratory, and an × indicates papers both with authors from the laboratory and data from its accelerator(s).

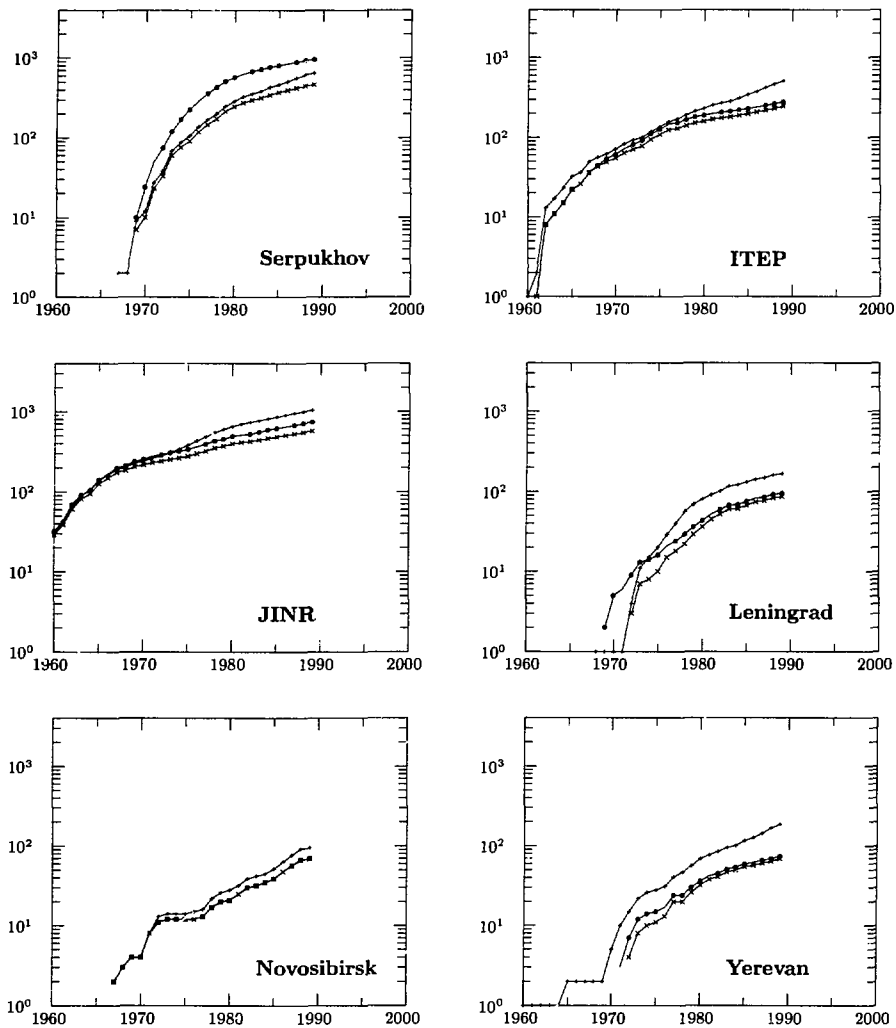


Fig. 4. The cumulative number of papers from major USSR accelerator laboratories. A + indicates papers with authors from the laboratory, a • indicates papers on data taken at an accelerator at that laboratory, and an x indicates papers both with authors from the laboratory and data from its accelerator(s).

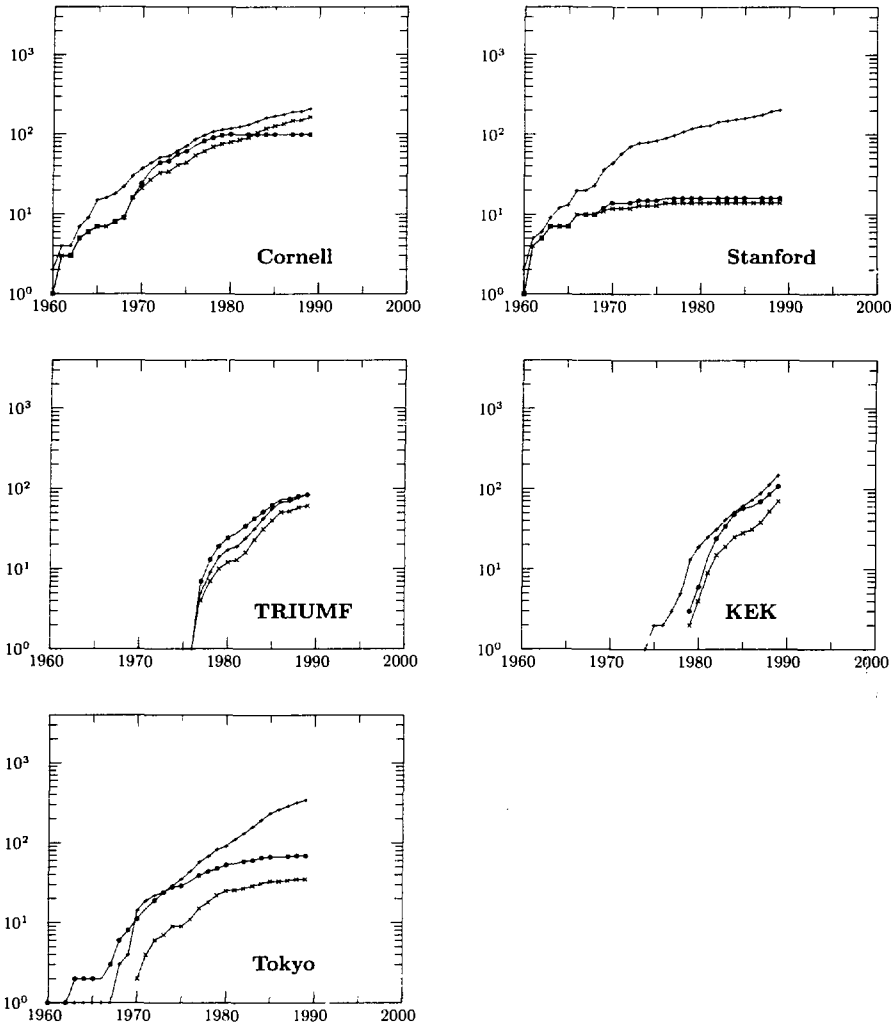


Fig. 5. The cumulative number of papers from some USA, Canadian, and Japanese accelerator laboratories. A + indicates papers with authors from the laboratory, a • indicates papers on data taken at an accelerator at that laboratory, and an x indicates papers both with authors from the laboratory and data from its accelerator(s).

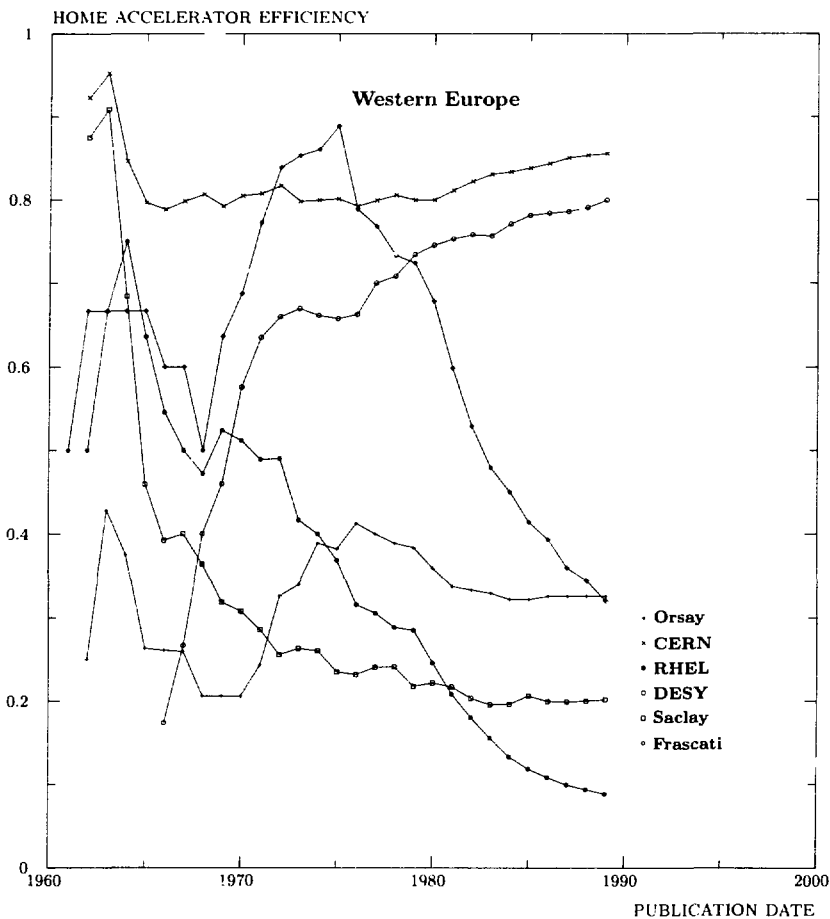


Fig. 6. The fraction of all the experimental papers with authors from a given laboratory that present data taken at an accelerator at that laboratory.

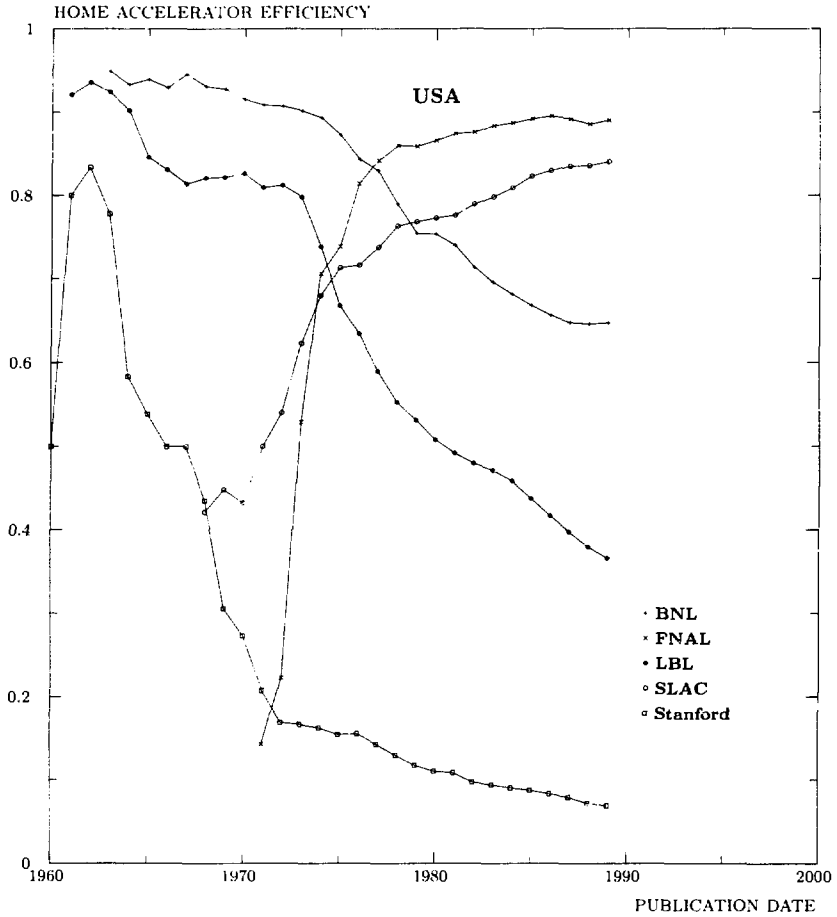


Fig. 7. The fraction of all the experimental papers with authors from a given laboratory that present data taken at an accelerator at that laboratory.

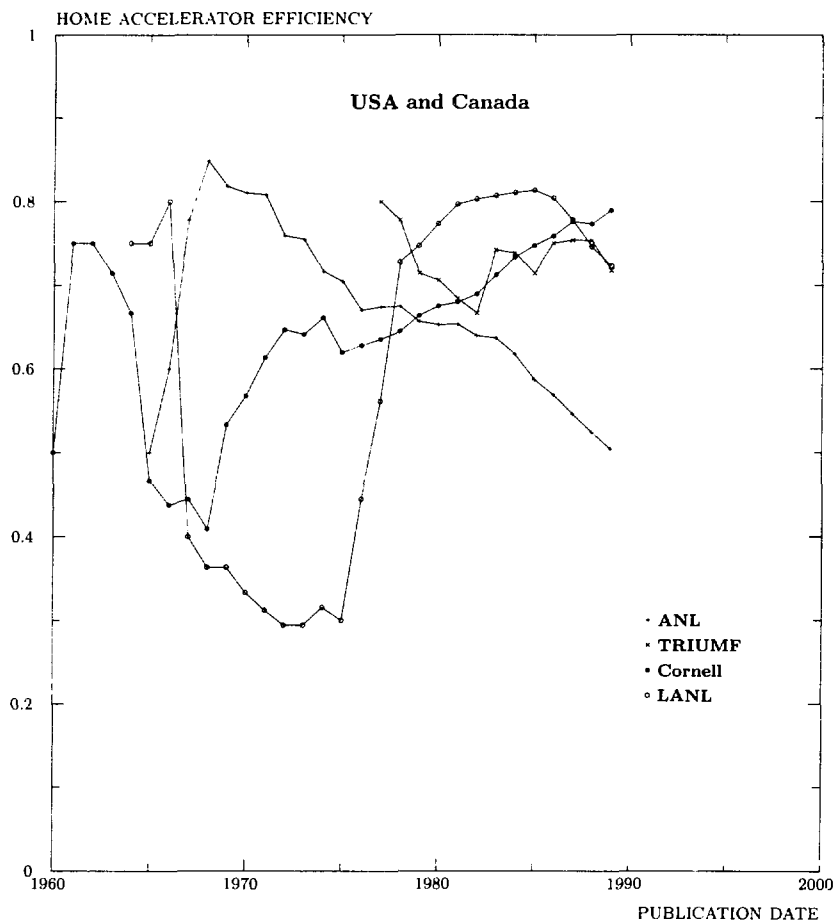


Fig. 8. The fraction of all the experimental papers with authors from a given laboratory that present data taken at an accelerator at that laboratory.

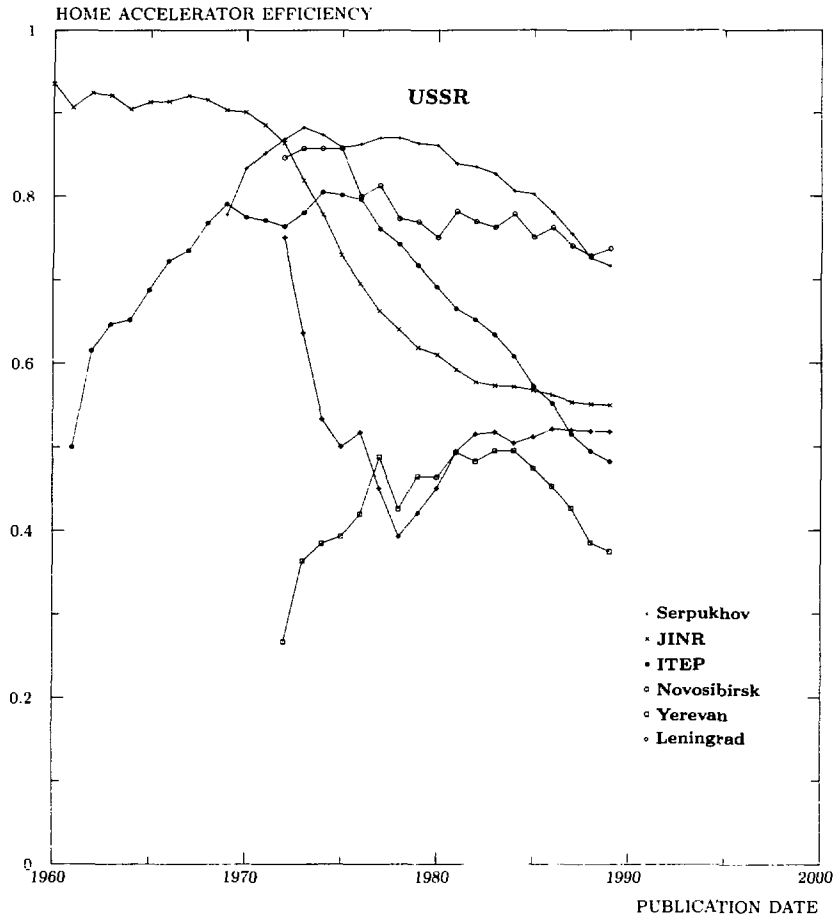


Fig. 9. The fraction of all the experimental papers with authors from a given laboratory that present data taken at an accelerator at that laboratory.

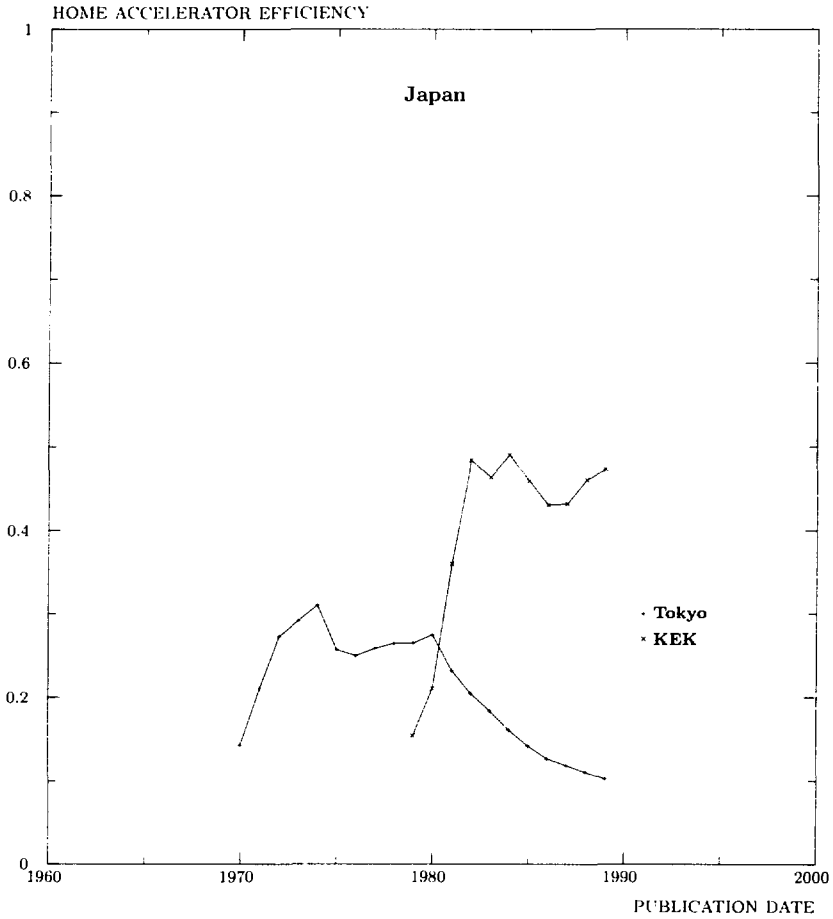


Fig. 10. The fraction of all the experimental papers with authors from a given laboratory that present data taken at an accelerator at that laboratory.

Each paper is assigned an identifier (ID) composed of the name of the first author and the year the paper appeared, as in JONES 87. Other papers with the same first author and year are listed as JONES 87B, JONES 87C, etc. In the other indices, the papers are referred to by this ID. The present index then provides the reference and the title of the paper. Due to text processing procedures, titles of papers in this index may differ slightly from the original titles, especially concerning particle names.

One may use this index to see if a preprint has been published. Note, however, that the year of preprinting and the year of publishing are often different, and our ID is usually that of the year of preprinting.

Illustrative Key

Document ID: all other indices in this volume refer to this paper by this ID.	Dougherty 88	LBL-26303: An Experimental Investigation of Double Beta Decay of ^{100}Mo
	Dowell 88	CERN-EP-88-154: Recent Results from the UA1 Experiment
Primary Reference: the journal reference for this paper, if the paper was published.	Drechsel 85	Phys. Rev. Lett. 54:30,1985 Search for Anomalous Fragments of ^{56}Fe Using Plastic Nuclear Track Detectors
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Additional References: the preprint number (occasionally there is more than one).	Druzhinin 88	Z. Phys. C37:1,1988; NOVO-87-52 Search for Rare Radiative Decays of the ϕ Meson at VEPP-2M
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This index lists papers by beam, target, and beam momentum. The ordering is by beam mass, then target mass, then beam momentum. For a given beam momentum, ID's are ordered by year (most recent to oldest), then author name. For the full reference, see the ID/Reference/Title Index.

In most cases, we give both the equivalent lab momentum for scattering on a fixed target and the c.m. energy E_{cm} , the latter in parentheses. However, for colliding beam experiments, we usually only give E_{cm} ; we also give only E_{cm} for reactions above 2 TeV/c equivalent lab momentum. When a range of momenta are studied, we list the lower and upper ends of the range, e.g. "50 - 70," ordered by the lower end of the range. For some experiments, such as neutrino experiments, the listed range is only approximate.

A question mark means that the indicated information is missing from the database, usually because it was not given in the paper.

Illustrative Key

Beam and Target: see the *Particle Vocabulary* for nomenclature.

$p p$	
(63)	Akesson 88D Akesson 87 Akesson 87B Akesson 87C Akesson 87D Akesson 87E Chauvat 87 Smith 85D
(> 433.2)	Linsley 84
$p n$	
0.1374 - 1.464 (1.883 - 2.243)	Bystricky 86D
0.6103 (1.966)	Sowinski 87
0.9543 (2.068)	Ponting 88
1.463 (2.243)	Barlett 85
6 - 8 (3.63 - 4.111)	Soffer 85
21 - 25 (6.424 - 6.984)	Saidkhanov 86

Document ID: see the *ID/Reference/Title Index* for the full reference.

Lab Momentum: in GeV/c (not listed for colliding beam experiments).

CM Energy E_{cm} : in GeV, in parentheses.

$\gamma \pi^-$	γp	γ nucleon	γ He
(< 0.1732) ($0.3 - 0.7$) Ajaltoum 87 Counan 86 Ajaltoum 85B ($0.3 - 1$) ($0.3 - 1.75$) ($0.5 - 2$) ($0.5 - 4.5$) ($0.6 - 2.2$) ($0.7 - 3.4$) ($1 - 2.5$) ($1 - 3$) ($1 - 3.2$) ($1 - 3.3$) ($1 - 3.5$) ($1 - 4$) ($1 - 20$) ($1.2 - 3.6$) ($1.25 - 2.5$) ($1.3 - 3.4$) ($1.35 - 2.85$) ($1.4 - 3.5$) ($1.5 - 2.7$) ($1.5 - 3.5$) ($1.6 - 2.5$) ($1.6 - 3.6$) ($1.9 - 3.4$) ($2 - 2.6$) ($2 - 2.8$) ($2 - 2.9$) ($2 - 20$) ($2.25 - 2.6$) ($2.5 - 5$) ($2.5 - 5.5$) ($3 - 9$) (5) (< 34.5) (< 34.7) (< 36.5) ? Braunschweig 90B Marsiske 90 Behrend 89E Behrend 89G Braunschweig 89 Chen 89C Feindt 89 Jer sen 89 Blow 88 Behrend 88E Bienlein 88 Albrecht 87M Antreasyan 87 Barlow 87 Blinov 87C Kolanoski 87 Althoff 86 Blow 86B Lowe 86B Aihara 85D Landsberg 85	γp 0.58 - 1.26 (1.403 - 1.801) Bratashevsky 85B 0.7 - 0.85 (1.481 - 1.573) Meyer 88B 0.7 - 1.6 (1.481 - 1.97) Bagdasaryan 90 0.73 - 1.066 (1.5 - 1.697) Avakyan 88C 0.768 - 1.192 (1.524 - 1.766) Bratashevsky 87 0.9 - 1.15 (1.603 - 1.743) Ishii 85 0.9 - 1.35 (1.603 - 1.848) Agababyan 89B 0.9 - 1.5 (1.603 - 1.922) Asaturyan 86C 0.9 - 1.65 (1.603 - 1.994) Sirunyan 88 1 - 10 (1.66 - 4.432) Avakyan 87B 1.125 - 1.3 (1.73 - 1.822) Bratashevsky 85 4.9 - 6.6 (3.171 - 3.642) Bodenkamp 85 6 - 200 (3.484 - 19.4) Prokoshkin 87C 15 - 20 (3.888 - 6.198) Abe 85 Ackleh 89 Brau 88 Abe 86 Butler 86 Odel 86 Abe 85B 20 - 70 (6.198 - 11.5) Atkinson 88 Adamovich 86B Atkinson 86 Atkinson 86B Atkinson 85 Atkinson 85B Atkinson 85C Atkinson 85D Atkinson 85F Atkinson 84F 35 - 185 (8.158 - 18.661) Barate 86C 40 - 160 (8.714 - 17.35) Kennett 87B Sliwa 83 40 - 170 (8.714 - 17.89) Bhadra 85 50 - 70 (9.732 - 11.5) Atkinson 85E 50 - 150 (9.732 - 16.8) Auge 86B 60 - 170 (10.65 - 17.89) Korsgen 88 Soldnerrembo 87 60 - 200 (10.65 - 19.4) Aubert 84C 60 - 225 (10.65 - 20.57) Busenitz 89 65 - 175 (11.08 - 18.15) Apsimon 90 Apsimon 89 Dieter 89 Rotscheidt 88 75 - 148 (11.9 - 16.69) Chapin 85 80 - 190 (12.29 - 18.91) Sokoloff 86 80 - 230 (12.29 - 20.8) Anjos 89B Anjos 87C 100 - 170 (13.73 - 17.89) Holzkamp 88 145 (16.52) Anjos 90C	γ nucleon 20 - 70 (6.204 - 11.51) Klein 89C Adamochev 86E 40 - 240 (8.723 - 21.26) Aubert 86C 12.681 15 - 85 (9.216 - 12.681) Busenitz 89 50 - 150 (9.741 - 16.82) Alvarez 90 Alvarez 90B Alvarez 90C Wormser 89 Roudeau 88 Auge 86 Barate 86 Barate 86B 80 - 170 (12.3 - 17.9) Arucolo 86F 80 - 230 (12.3 - 20.82) Anjos 89C 100 (13.74) Wormser 89B 145 (16.54) Purohit 88	γ He 0.137 - 0.155 (2.928 - 2.945) Argan 88 0.2 (2.988) Gorbunko 85 0.275 - 0.474 (3.057 - 3.234) Audi 89 0.35 (3.125) Zybalov 88 γ He 0.06 - 0.35 (3.786 - 4.061) Ganenko 88 0.137 - 0.155 (3.861 - 3.878) Argan 88 0.17 - 0.45 (3.892 - 4.152) Maruyama 89 Enlo 88 0.35 (4.061) Zybalov 88 0.45 - 0.55 (4.152 - 4.24) Adamyan 88 2.3 - 3.3 (5.57 - 6.203) Aleksanyan 86 γ He 0.1379 - 0.1699 (3.864 - 3.895) Jannes 89 0.187 - 0.427 (3.911 - 4.133) Maruyama 89 0.19 - 0.43 (3.914 - 4.136) Ananin 85 0.29 (4.008) Redwine 86 γ Li 0.137 - 0.147 (5.724 - 5.734) Glavanakov 89 0.3 - 1 (5.881 - 6.513) Adamyan 88 0.5 (6.068) Naumenko 89 < 0.6 (< 6.16) Zybalov 90B 50 - 150 (24.29 - 41.33) Barate 86B Astbury 85 γ Li 0.137 - 0.147 (6.6 - 6.61) Glavanakov 87 Glavanakov 86 Bratashevsky 87D γ Be 0.137 - 0.147 (8.519 - 8.529) Glavanakov 89 < 0.5 (< 8.869) Stenz 86 < 0.6 (< 8.963) Zybalov 90B γ Be 0.187 - 0.427 (8.58 - 8.812) Maruyama 89 0.2 - 0.9 (8.593 - 9.251) Ananikyan 87 Arakelyan 85 0.22 - 0.45 (8.612 - 8.833) Arends 85 80 - 190 (37.6 - 57.1) Sokoloff 86 80 - 230 (37.6 - 62.71) Anjos 90 Anjos 89 Anjos 88 Anjos 88B Anjos 88C Anjos 88D Anjos 88E Anjos 88F Anjos 88G Anjos 87 Anjos 87B Anjos 87D Grab 87 Raab 87 Anjos 86 Anjos 85 100 - 200 (41.83 - 58.55) Klein 89C

γ Be

ν Ne

γ Be 145 (50.05) Anjos 90C	γ Si 70 - 225 (65.93 - 111.6) Klein 89C Amendolia 87B	γ Ge 70 - 225 (118.5 - 187.1) Klein 89C Amendolia 87 Amendolia 87B	γ Pb 0.22 - 0.45 (193.2 - 193.5) Arends 85 0.5 - 3.3 (193.5 - 196.3) Arakelyan 89D 1.5 - 4.5 (194.5 - 137.5) Avakyan 90 Avakyan 85B Alanakyan 84 - 332.6) Sokoloff 86
γ ¹¹Bor 1.5 - 4.5 (11.65 - 14.04) Arakelyan 90	γ S 1.5 - 4.5 (31.33 - 34.07) Alanakyan 87	γ Zr 0.8 - 1.8 (85.77 - 86.75) Delima 90B Delima 89	γ ²⁰⁸Pb < 0.5 (< 194.2) Stenz 86
γ ¹²C 0.137 - 0.147 (11.32 - 11.33) Glavanakov 89 0.4 (11.57) Tonapetyan 85B < 0.5 (< 11.67) Stenz 86 0.5 (11.67) Naumenko 89 < 0.6 (< 11.76) Zybalov 90B	γ ⁴⁰Ca 0.168 (37.43) Koch 89 0.4 (37.66) Tonapetyan 85B	γ Nb 0.8 - 1.8 (87.34 - 88.32) Delima 90B Amroyan 89	γ ²⁰⁹Pb 0.4 (195.1) Tonapetyan 85B
γ C 0.137 - 0.147 (11.32 - 11.33) Glavanakov 87 Glavanakov 86 0.1379 - 0.1699 (11.33 - 11.36) James 89 0.2 - 0.9 (11.39 - 12.05) Ananikyan 87 Arakelyan 85 0.22 - 0.45 (11.41 - 11.63) Arends 85 0.3 - 0.44 (11.48 - 11.62) Belousov 88 0.34 - 0.58 (11.52 - 11.75) Maruyama 89 1.5 - 4.5 (12.6 - 15.03) Avakyan 89 Alanakyan 88 Alanakyan 87 Avakyan 85B Alanakyan 84 Bratashevsky 87D	γ Ti 0.8 - 1.8 (45.41 - 46.39) Delima 90B Delima 89	γ ⁹⁵Nb 0.4 (87.33) Tonapetyan 85B	γ ²⁰⁹Bi 0.4 (195.1) Tonapetyan 85B
γ ¹⁶O 0.137 - 0.147 (15.04 - 15.05) Glavanakov 89 0.15 - 0.25 (15.05 - 15.15) Beise 89 0.196 (15.09) Turley 85 < 0.5 (< 15.39) Stenz 86	γ ⁴⁸Ti < 0.5 (< 45.21) Stenz 86	γ Ag 0.8 - 1.8 (101.3 - 102.3) Delima 90B 1.5 - 4.5 (102 - 104.9) Amroyan 88 2.9 - 4.5 (103.3 - 104.9) Amroyan 89	γ ²⁸⁶U 0.15 - 4.32 (219 - 223.2) Arakelyan 89 Arakelyan 89C
γ O 0.2 - 0.9 (15.1 - 15.78) Arakelyan 85	γ Cr 1.5 - 4.5 (49.91 - 52.74) Alanakyan 87	γ In 0.8 - 1.8 (107.7 - 108.7) Delima 90B	γ ²⁸⁸U 0.15 - 3.55 (221.8 - 225.2) Arakelyan 89E 0.15 - 4.32 (221.8 - 226) Arakelyan 89 Arakelyan 89C 0.4 (222.1) Tonapetyan 85B
γ ²⁴Mg 0.4 (22.75) Tonapetyan 85B	γ ⁵⁴Fe 0.4 (50.7) Tonapetyan 85B	γ ¹¹⁶Sn 1.5 - 4.5 (109.5 - 112.5) Arakelyan 90	γ nucleus 0.1 - 0.53 Arends 88 0.187 - 0.427 Maruyama 89 4.1 - 185 Fredriksson 87 13 - 25 Baskov 88 20 - 70 Forino 87 100 - 10 ³ Zatsepin 89 900 - 10 ⁴ Bakatanov 88 10 ³ Bond 89 > 5 · 10 ⁴ Haines 90 Dingus 88 Dingus 88B 75 · 10 ³ Tanimori 89 > 10 ⁵ Bond 88B
γ Al 0.2 - 0.9 (25.33 - 26.02) Arakelyan 85 0.22 - 0.45 (25.35 - 25.58) Arends 85 0.5 - 3.3 (25.63 - 28.24) Arakelyan 89D 0.8 - 1.8 (25.92 - 26.87) Delima 90B 1.5 - 4.5 (26.59 - 29.29) Avakyan 90 Alanakyan 87	γ Fe 60 - 200 (94.6 - 153.3) Aubert 84C 80 - 190 (105 - 149.9) Sokoloff 86 (197.8 - 614.2) Aglamazov 85	γ Sn 0.22 - 0.45 (110.8 - 111) Arends 85 1.5 - 4.5 (112 - 115) Avakyan 89 Avakyan 85B	γ > 0.0002 Hirata 89B < 0.005 Bonnetbidaud 88 0.1 - 10 ¹¹ Baltrusaitis 85C 25 - 440 Hirata 88E > 10 ³ Bond 89 > 5 · 10 ⁴ Gaisser 89 > 10 ⁵ Cassiday 89B Bond 88B ? Vonfeilitzsc 85
γ ²⁷Al 0.4 (25.55) Tonapetyan 85B < 0.6 (< 25.74) Zybalov 90B 0.8 - 1.8 (25.94 - 26.89) Delima 89 1.5 - 4.5 (26.61 - 29.31) Arakelyan 90	γ ⁶⁰Fe 0.4 (52.56) Tonapetyan 85B	γ ¹²⁰Sn 1.5 - 4.5 (113.3 - 116.2) Arakelyan 90	ν p 5 - 150 (3.204 - 16.8) Allen 85 10 - 260 (4.432 - 22.11) Jongejans 89 30 - 300 (7.562 - 23.75) Klein 89C 200 (19.4) Berger 86B
γ ²⁸Si 0.4 (26.48) Tonapetyan 85B	γ Co 0.8 - 1.8 (55.69 - 56.67) Delima 90B	γ ¹²²Sn 1.5 - 4.5 (115.1 - 118.1) Arakelyan 90	ν n 10 - 260 (4.436 - 22.12) Jongejans 89
	γ ⁵⁹Co 0.8 - 1.8 (55.75 - 56.73) Delima 89	γ ¹²⁴Sn 1.5 - 4.5 (117 - 119.9) Arakelyan 90	ν deuteron 10 - 100 (6.405 - 19.46) Matsinos 89 < 200 (< 27.45) Nachtinnann 85 200 (27.45) Berger 86B
	γ ⁶⁰Ni 1.5 - 4.5 (57.37 - 60.22) Arakelyan 90 Arakelyan 86	γ Xe 0.025 - 2.5 (122.3 - 124.8) Strugalski 88B	ν Ne 10 - 100 (27 - 64.11) Matsinos 89 50 (47.24) Ammar 89B
	γ ⁶¹Ni 1.5 - 4.5 (58.3 - 61.16) Arakelyan 90 Arakelyan 86	γ Cs(atom) 0.4 · 10 ⁻⁹ (132.9) Gilbert 86B Gilbert 85	
	γ ⁶²Ni 1.5 - 4.5 (59.23 - 62.09) Arakelyan 90 Arakelyan 86	γ Nd 0.8 - 1.8 (135.2 - 136.1) Delima 90B	
	γ Cu 0.22 - 0.45 (59.42 - 59.65) Arends 85 0.5 - 3.3 (59.69 - 62.41) Arakelyan 89D 1.5 - 4.5 (60.68 - 63.54) Avakyan 85B Alanakyan 84 1.6 (60.78) Bratashevsky 87D 4 (63.07) Amroyan 89	γ Sm 0.8 - 1.8 (140.8 - 141.8) Delima 90B	
	γ ⁶⁵Cu 1.5 - 4.5 (62.03 - 64.89) Arakelyan 90	γ Ta 0.8 - 1.8 (169.3 - 170.3) Delima 90B 4 (172.5) Amroyan 89	
		γ ¹⁸¹Ta 0.4 (169) Tonapetyan 85B	
		γ ²⁰⁷Pb 0.4 (193.2) Tonapetyan 85B	

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

ν Fe	ν_e nucleus	$\bar{\nu}_e$ nucleus	ν_μ n
10 - 260 (61.21 - 172.5) Berge 89 < 200 (< 153.3) Nachtmann 85	0.02 - 0.06 0.1 - 1.1 0.2 - 20 0.4 - 2 0.5 - 19 1 - 13 10 - 100	0.1 - 1.1 0.2 - 20 0.4 - 2 1 - 13 10 - 100	> 0.15 (> 1.079) Allison 89B 0.2 - 5 (1.122 - 3.206) Kitagaki 86 1.5 (1.924) Lile 89 3 - 30 (2.553 - 7.567) Brunner 89 Grabosch 89 Grabosch 86D Belikov 85 Belikov 83B < 4 (< 2.898) Ahrens 87 10 - 260 (4.436 - 22.12) Jongejans 89 Allasia 88C Allasia 85B Allasia 85C Allasia 85D
ν nucleus 10 - 200 50 0.007 - 0.011 0.012 - 0.02 0.2 - 2.6 (19.4) ? $\bar{\nu}$ p 5 - 150 (3.204 - 16.8) Allen 85 $\bar{\nu}$ deuteron 10 - 100 (6.405 - 19.46) 200 (27.45) $\bar{\nu}$ Ne 10 - 100 (27 - 64.11) 10 - 200 (27 - 88.7) $\bar{\nu}$ Fe 10 - 260 (61.21 - 172.5) Berge 89 $\bar{\nu}$ nucleus 10 - 200 Grassler 86 $\nu_e e^-$ 0.0002 - 0.007 < 0.004 (< 0.0021) 0.005 - 0.05 (0.0023 - 0.0072) < 0.02 (< 0.0045) 0.02 - 0.053 (0.0045 - 0.0074) < 0.053 (< 0.0074) ? $\nu_e n$ > 0.2 (> 1.122) 1.5 (1.924) < 4 (< 2.898) < 12 (< 4.841) ν_e nucleus 3 - 30 (2.554 - 7.569) < 7 (< 3.747) 10 - 160 (4.437 - 17.37) 10 - 260 (4.437 - 22.13) ν_e C 0.05 - 0.3 (11.24 - 11.48) ν_e ^{37}Cl > 0.0005 (> 34.47) < 0.02 (< 34.48)	0.0002 - 0.007 > 0.0002 0.0002 - 0.007 0.005 - 0.05 > 0.007 > 0.0075 > 0.0076 0.02 - 0.05 < 0.05 0.05 - 0.1 > 1.7 ? $\bar{\nu}_e e^-$ 0.002 - 0.009 (0.0015 - 0.0031) 0.004 - 0.01 (0.0021 - 0.0032) $\bar{\nu}_e p$ 0.002 - 0.009 (0.9403 - 0.9472) < 0.008 (< 0.9462) < 0.01 (< 0.9482) < 0.053 (< 0.9899) 0.2 - 2 (1.121 - 2.153) 1.5 (1.922) ? $\bar{\nu}_e$ deuteron 0.002 - 0.009 (1.878 - 1.885) 0.004 - 0.01 (1.88 - 1.886)	> 0.0002 0.0002 - 0.007 0.002 - 0.009 0.005 - 0.05 > 0.0076 0.01 0.017 - 0.0191 0.019 - 0.035 0.02 - 0.05 < 0.05 0.05 - 0.1 > 1.7 ? (0.9423 - 0.9482) $\nu_\mu e^-$ 1.27 (0.036) 1.5 (0.0392) 10 - 160 (0.1011 - 0.4044) 10 - 200 (0.1011 - 0.4521) 15 - 600 (0.1238 - 0.7831) < 200 (< 0.4521) $\nu_\mu p$ 0.2 - 5 (1.121 - 3.204) 3 - 30 (2.551 - 7.562) 5 - 150 (3.204 - 16.8) 10 - 100 (4.432 - 13.73) 10 - 200 (4.432 - 19.4) 10 - 260 (4.432 - 22.11) 10 - 300 (4.432 - 23.75) < 12 (< 4.837) < 200 (< 19.4)	> 0.15 (> 1.079) Allison 89B 0.2 - 5 (1.122 - 3.206) Kitagaki 86 1.5 (1.924) Lile 89 3 - 30 (2.553 - 7.567) Brunner 89 Grabosch 89 Grabosch 86D Belikov 85 Belikov 83B < 4 (< 2.898) Ahrens 87 10 - 260 (4.436 - 22.12) Jongejans 89 Allasia 88C Allasia 85B Allasia 85C Allasia 85D < 12 (< 4.841) Ahrens 86 Ahrens 85B < 200 (< 19.41) Schmitz 88 ν_μ nucleus 3 - 30 (2.554 - 7.569) Ammosov 88B Ammosov 88D Ammosov 88E Ammosov 87D Ammosov 87E Ammosov 86H Ammosov 86I Ammosov 85 Ammosov 85B < 7 (< 3.747) 10 - 100 (4.437 - 13.74) Varvell 87 10 - 160 (4.437 - 17.37) Blondel 90 Allaby 89 Allaby 88 Allaby 88C Allaby 87 Berge 87 Allaby 86 Allaby 86B Abramowicz 85 10 - 200 (4.437 - 19.41) Ammosov 88 Ushida 88 Ushida 88B Ammosov 87B Asratyan 87C Ammosov 86G Diemoz 86 10 - 230 (4.437 - 20.82) Mishra 89 10 - 260 (4.437 - 22.13) Bergsma 84C 30 - 230 (7.569 - 20.82) Reutens 90 Lang 87 Mishra 87 30 - 600 (7.569 - 33.6) Foudas 88B 60 - 90 (10.66 - 13.04) Bogert 85B Bergsma 85C 165 - 250 (17.64 - 21.7) Bogert 86 < 230 (< 20.82) Mukherjee 86 Bogert 85 < 300 (< 23.77) Murtagh 85B ν_μ deuteron 0.2 - 5 (2.066 - 4.72) 1 - 5 (2.696 - 4.72) Mann 86 10 - 100 (6.405 - 19.46) Allport 89

ν_{μ} deuteron

$\bar{\nu}_{\mu}$

ν_{μ} deuteron	
10 - 200 (6.405 - 27.45)	Guy 87 Cole 88 Canlon 85
10 - 260 (6.405 - 31.29)	Allasia 88 Allasia 88B Allasia 88C Tenner 88 Allasia 86 Allasia 85 Allasia 85B Allasia 85C Allasia 85D
10 - 300 (6.405 - 33.6)	Guy 89
< 500 (< 43.35)	Kitagaki 88
ν_{μ} C	
0.05 - 0.3 (11.24 - 11.48)	Dombek 87
ν_{μ} Ne	
5 - 150 (23.26 - 77.39)	Bosetti 90
10 - 100 (27 - 64.11)	Allport 89 Marage 89 Witek 89 Witek 88 Guy 87 Witek 87 Aderholz 86 Baton 85
10 - 200 (27 - 88.7)	Ammosov 87C Baker 86 Brucker 86 Voyvodic 86 Baker 85 Brucker 85 Hanlon 85
10 - 300 (27 - 107.8)	Guy 89
10 - 320 (27 - 111.3)	Ballagh 86
14 - 200 (29.65 - 88.7)	Baltay 85
20 (33.23)	Baltay 86
40 - 300 (43.08 - 107.8)	Aderholz 89
50 (47.24)	Baker 85C
< 200 (< 88.7)	Schmitz 88
ν_{μ} Fe	
10 - 160 (61.21 - 139.1)	Berge 87 Abramowicz 85
10 - 260 (61.21 - 172.5)	Burkhardt 85
30 - 230 (76.34 - 163.2)	Stockdale 85
30 - 600 (76.34 - 255.2)	Foudas 88 Schumm 88 Merritt 87 Merritt 87E
120 - 250 (123.3 - 169.5)	Reutens 87
160 (139.1)	Abramowicz 86
ν_{μ} nucleus	
0.1 - 1.1	Suzuki 88
0.2 - 20	Berger 89B Perdereau 89 Longuemare 88 Bionta 88 Nakamura 88 Angolini 86
0.4 - 2	Bergsma 88
0.5 - 19	Ammosov 88G
1 - 13	Bergsma 88
3 - 30	Ammosov 88G Grabosch 86

ν_{μ} nucleus	
10 - 100	Grabosch 86B Ammosov 85C Ammosov 85D Baranov 85 Witek 87 Ushida 86 Ushida 86B Ushida 86C
10 - 200	Anmar 89 Anmar 88 Batusov 88C Ammosov 87C Asratyan 87B Asratyan 87C Batusov 87 Smart 86 Voyvodic 86 Voyvodic 86B Baker 85E Voyvodic 85
10 - 260	Dorenbosch 86 Bergsma 85B Ballagh 89 Schmitz 88 Kitagaki 88 Oyama 88B (76.34 - 163.2)
10 - 320	Rannm 85
< 300	
< 500	
$10^3 - 10^6$	
(76.34 - 163.2)	
ν_{μ}	
0.05 - 0.1	Hirata 89D Hirata 88B Hirata 88C Hirata 88E Takita 89B Arpesella 88B
> 0.175	Oyama 87B
0.2 - 20	Oyama 88B
> 1.7	Longuemare 89
$10^3 - 10^6$	Suzuki 89
?	Totsuka 89B
$\bar{\nu}_{\mu} e^-$	
1.23 (0.0355)	Abe 89E
1.4 (0.0378)	Ahrens 85
10 - 160 (0.1011 - 0.4044)	Dorenbosch 89 Geiregat 89
$\bar{\nu}_{\mu} p$	
> 0.15 (> 1.078)	Allison 89B
0.2 - 2 (1.121 - 2.153)	Losecro 87
1.5 (1.922)	Krizmanic 89
3 - 30 (2.551 - 7.562)	Brunner 89 Grabosch 89 Grabosch 86D Belikov 85 Belikov 83B
5 - 150 (3.204 - 16.8)	Jones 90 Jones 89B Jones 89C Jones 87 Jones 87B Jones 86 Grassler 85 Jones 85B
10 - 100 (4.432 - 13.73)	Aderholz 86
10 - 200 (4.432 - 19.4)	Ammosov 86B Ammosov 86F Asratyan 85 Asratyan 85B
10 - 260 (4.432 - 22.11)	Jongejans 89 Allasia 88C Allasia 85B Allasia 85C Allasia 85D

$\bar{\nu}_{\mu} p$	
10 - 300 (4.432 - 23.75)	Guy 89
< 12 (< 4.837)	Ahrens 88 Ahrens 87C Abe 86B Ahrens 86
< 200 (< 19.4)	Schmitz 88
$\bar{\nu}_{\mu} n$	
3 - 30 (2.553 - 7.567)	Brunner 89 Grabosch 89
10 - 200 (4.436 - 19.41)	Asratyan 85 Asratyan 85B
10 - 260 (4.436 - 22.12)	Jongejans 89 Allasia 88C Allasia 85B Allasia 85C Allasia 85D
< 200 (< 19.41)	Schmitz 88
$\bar{\nu}_{\mu}$ nucleon	
3 - 30 (2.554 - 7.569)	Ammosov 86I Ammosov 85 Ammosov 85B
5.7 - 205 (3.406 - 19.65)	Baldin 87
10 - 100 (4.437 - 13.74)	Varvell 87
10 - 160 (4.437 - 17.37)	Blondel 90 Allaby 89 Allaby 88 Allaby 88C Berge 87
10 - 200 (4.437 - 19.41)	Abramowicz 85 Ammosov 88 Ushida 88B Ammosov 87 Ammosov 87B Asratyan 87 Asratyan 87C Baldin 87B Ammosov 86 Ammosov 86D Ammosov 86E Ammosov 86G Asratyan 86 Asratyan 86B Dienez 86 Asratyan 85 Ammosov 84H Ammosov 84G
10 - 260 (4.437 - 22.13)	Bergsma 84C
30 - 230 (7.569 - 20.82)	Reutens 90 Lang 87
30 - 600 (7.569 - 33.6)	Foudas 88B Bogert 85B Bogert 86
60 (10.66)	Bogert 86
165 (17.64)	Bogert 86
< 230 (< 20.82)	Mukherjee 86 Bogert 85
$\bar{\nu}_{\mu}$ deuteron	
10 - 100 (6.405 - 19.46)	Allport 89 Guy 87
10 - 260 (6.405 - 31.29)	Allasia 88 Allasia 88C Allasia 85C Tenner 88 Allasia 86 Allasia 85

$\bar{\nu}_{\mu}$ deuteron	
10 - 300 (6.405 - 33.6)	Allasia 85B Allasia 85C Allasia 85D Guy 89
$\bar{\nu}_{\mu}$ Ne	
10 - 100 (27 - 64.11)	Allport 89 Witek 89 Witek 88 Guy 87 Marage 87 Witek 87 Aderholz 86 Marage 86 Baton 85 Fitch 85
10 - 200 (27 - 88.7)	Ammosov 88C Ammosov 86C Asratyan 85
10 - 300 (27 - 107.8)	Guy 89
40 - 300 (43.08 - 107.8)	Aderholz 89
< 200 (< 88.7)	Schmitz 88
$\bar{\nu}_{\mu}$ Fe	
10 - 160 (61.21 - 139.1)	Berge 87 Abramowicz 85
10 - 260 (61.21 - 172.5)	Burkhardt 85
30 - 230 (76.34 - 163.2)	Stockdale 85
30 - 600 (76.34 - 255.2)	Foudas 88 Schumm 88 Merritt 87 Merritt 87B
120 - 250 (123.3 - 169.5)	Reutens 85
$\bar{\nu}_{\mu}$ nucleus	
0.1 - 1.1	Suzuki 88
0.2 - 20	Berger 89B Perdereau 89 Longuemare 88 Bionta 88 Nakamura 88 Bergsma 88 Grabosch 86
0.4 - 2	Ammosov 85C Baranov 85
10 - 100	Witek 87 Ushida 86C Geiregat 90
10 - 160	Ammosov 87F
10 - 200	Asratyan 87 Asratyan 87B Asratyan 87C Asratyan 86 Asratyan 85B Bergsma 85B
10 - 260	Oyama 88B
$10^3 - 10^6$	Rannm 85
?	
$\bar{\nu}_{\mu}$	
0.05 - 0.1	Hirata 89D Hirata 88B Hirata 88C Hirata 88E
> 0.175	Takita 89B
0.2 - 2	Arpesella 88B
> 1.7	Oyama 87B
$10^3 - 10^6$	Oyama 88B
?	Longuemare 89 Suzuki 89 Totsuka 89B

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

ν_T nucleus $e^+ e^-$

ν_T nucleus	e^- deuteron	$e^-^{13}\text{C}$	$e^-^{163}\text{Ho}$
< 400 Talebzadeh 87	1 - 400 (2.696 - 38.78) Berger 86B	? Hicks 86	? Yasumi 85
$\bar{\nu}_T$ nucleus	1.465 - 1.57 (3.002 - 3.067) Breuker 85 Meyer 88B	$e^-^{14}\text{N}$	$e^- \text{Ta}$
< 400 Talebzadeh 87	2 (3.32) 2.5 (3.591) Schablitzky 89 3.7 - 18 (4.171 - 8.428) Whitlow 90	0.1735 (13.21) Roehrich 85 (11.94) Hicks 86	0.78 (169.3) Geesaman 89
$e^- \gamma$	3.75 - 19.5 (4.193 - 8.756) Dasu 88 Dasu 87 Dasu 87B	$e^- \text{Al}$	$e^- \text{Wt}$
3 - 12 Hill 89	4.6 (4.558) Vapenikova 88 8 (5.79) Gomez 85 16.2 - 22.2 (8.018 - 9.316) Klein 84B	0.78 (25.9) Geesaman 89 2 - 4.5 (27.06 - 29.29) Aivazyan 86 Aivazyan 86B Gomez 85	0.96 - 1.5 (172.2 - 172.8) Sealock 89 Davies 89 Konaka 86 9 - 22.4 (180 - 192.4) Riordan 87
5 Blinov 87	500 (43.35) Barreau 86 ? Arnold 89	$e^-^{27}\text{Al}$	$e^- \text{Au}$
(14 - 28) Bonneaud 86	$e^-^3\text{H}$? Day 87	2 - 4.5 (185.5 - 187.9) Aivazyan 86 Aivazyan 86B
14.5 Aihara 89C Aihara 88D Aihara 88E Gidal 88 Gidal 88B Aihara 87F Aihara 86J Boyer 86 Althoff 86B Berger 87C Berger 88B Berger 85B Braunschweig 88F 17.5 - 23.3 Bartel 87B 18.3 Sasaki 89 25 - 28 Sasaki 88 ? Ouldsaada 88B Tokii 88B Berger 87B Kolanoski 86 Landsberg 85	0.1905 - 0.6855 (2.979 - 3.412) Ottermann 85 Gomez 85 Marchand 85 0.3908 (3.161) Keizer 85 0.538 (3.289) Akhmerov 87 500 (52.94) Barreau 86 ? Beck 87	$e^-^{28}\text{Si}$	3.75 - 19.5 (187.2 - 202) Dasu 88 Dasu 87 Dasu 87B Gomez 85
16.5 - 17.5 Berger 87C	$e^-^3\text{He}$	1.54 - 2 (27.58 - 28.01) Bagdasaryan 85 Bagdasaryan 85B	$e^-^{197}\text{Au}$
17.4 Berger 88B	0.1055 - 0.3205 (2.898 - 3.098) Ottermann 85 0.1205 - 0.6675 (2.913 - 3.397) Marchand 85 0.3908 (3.161) Keizer 85 0.538 (3.289) Akhmerov 87 500 (52.94) Barreau 86 ? Beck 87	$e^- \text{Si}$? Day 87
17.5 Berger 85B	$e^-^4\text{He}$	0.76 (26.91) Adeishvili 87	$e^-^{238}\text{U}$
17.5 - 23.3 Braunschweig 88F	0.183 (3.905) Spahn 89 0.8 - 1.2 (4.455 - 4.778) Demety 88 0.96 - 1.5 (4.587 - 5.006) Sealock 89 1.174 (4.757) Kuplenikov 90 ? Day 87	$e^- \text{Ca}$	1.33 - 4.32 (220.2 - 223.2) Arakelyan 89 Arakelyan 89C
18.3 Bartel 87B	$e^- \text{He}$	$e^-^{40}\text{Ca}$	$e^-^{238}\text{U}$
25 - 28 Sasaki 89	0.1055 - 0.3205 (3.832 - 4.036) Ottermann 85 Gomez 85	0.12 - 0.695 (37.38 - 37.95) Meziani 85	1.33 - 4.32 (223 - 226) Arakelyan 89 Arakelyan 89C
? Ouldsaada 88B Tokii 88B Berger 87B Kolanoski 86 Landsberg 85	$e^-^6\text{Li}$	$e^-^{48}\text{Ca}$	$e^-^{238}\text{U}$
$e^- e^-$	1.54 - 2 (6.961 - 7.321) Bagdasaryan 85	0.12 - 0.695 (44.83 - 45.4) Meziani 85 0.2405 (44.95) Wise 85	1.33 - 4.32 (223 - 226) Arakelyan 89 Arakelyan 89C
0.85 - 2 (0.0295 - 0.0452) Brefeld 84 100.2 - 1184 (0.32 - 1.1) Salvini 88	$e^-^9\text{Be}$	$e^- \text{Fe}$	$e^- \text{nucleon}$
$e^- p$	0.3 (8.678) Hiel 89 1.45 - 2.13 (9.726 - 10.29) Bagdasaryan 88 1.54 - 2 (9.803 - 10.19) Bagdasaryan 85B	0.653 - 1.65 (52.67 - 53.65) Baran 88B 0.96 - 1.5 (52.97 - 53.5) Sealock 89 3.7 - 18 (55.6 - 67.67) Whitlow 90 3.75 - 19.5 (55.65 - 68.81) Dasu 88 Dasu 87 Dasu 87B Gomez 85	0.96 - 1.5 Sealock 89 1.501 - 16 Fredriksson 87 1.6 Davies 89 275 Bross 89 ? Davies 87
0.504 - 1.286 (1.351 - 1.815) Bosted 89 0.6455 (1.446) Gilman 90 0.96 - 1.5 (1.638 - 1.922) Sealock 89 1 - 400 (1.66 - 27.41) Berger 86B 4.6 (3.084) Vapenikova 88 5 - 21.5 (3.204 - 6.421) Arnold 86 120 - 280 (15.04 - 22.94) Nachtmann 85 Walker 89 Klein 84B	$e^-^{10}\text{B}$	$e^-^{56}\text{Fe}$	$e^+ \gamma$
$e^- n$	0.1055 - 0.3205 (3.832 - 4.036) Ottermann 85 Gomez 85	0.12 - 0.695 (52.28 - 52.85) Meziani 85 Day 87	5 Blinov 87 (14 - 28) Bonneaud 86 14.5 Aihara 88D Aihara 88E Gidal 88 Gidal 88B Aihara 86J Boyer 86 Berger 88B Berger 85B Bartel 87B Kolanoski 86 Landsberg 85
4.6 (3.087) Vapenikova 88	$e^-^{12}\text{C}$	$e^- \text{Ni}$	$e^+ e^-$
$e^- \text{nucleon}$	0.09 (11.85) Kalantarnaye 89 1.45 - 2.13 (12.55 - 13.14) Bagdasaryan 88 1.54 - 2 (12.63 - 13.03) Bagdasaryan 85 1.67 - 2.13 (12.74 - 13.14) Vartapetyan 89 Day 87 Hicks 86	0.78 (55.46) Geesaman 89 2 - 4.5 (56.65 - 59.02) Aivazyan 86 Aivazyan 86B	0 (0.001) Atoyan 90 Guinenko 89 Ivanov 87 Chang 85 0.0002 - 0.0007 (0.0011 - 0.0012) Minowa 89 < 0.0004 (< 0.0011) Kozhuharov 88 0.001 - 0.0017 (0.0013 - 0.0015) Tsertos 89B 0.0012 - 0.0013 (0.0013 - 0.0014) Tsertos 88 Tsertos 88B 0.0011 - 0.0029 (0.0013 - 0.0019) Wimmersperg 87 0.0015 - 0.002 (0.0015 - 0.0016) Mills 87 0.0019 - 0.0027 (0.0016 - 0.0018) Connell 88 0.002 - 0.0029 (0.0016 - 0.0019) Lorenz 88 0.0022 - 0.0024 (0.0017 - 0.0017) Tsertos 89
1 - 400 (1.662 - 27.44) Berger 86B 1.5 (1.924) Davies 86 20 (6.204) Bjorken 88	$e^- \text{Be}$	$e^- \text{Cu}$	$e^+ e^-$
$e^- \text{deuteron}$	1.54 - 2 (9.815 - 10.2) Bagdasaryan 85 2 - 4.5 (10.2 - 12.08) Aivazyan 86 Aivazyan 86B	2 - 4.5 (61.16 - 63.54) Aivazyan 86 Aivazyan 86B 9 - 22.4 (67.6 - 78.46) Riordan 87	0 (0.001) Atoyan 90 Guinenko 89 Ivanov 87 Chang 85 0.0002 - 0.0007 (0.0011 - 0.0012) Minowa 89 < 0.0004 (< 0.0011) Kozhuharov 88 0.001 - 0.0017 (0.0013 - 0.0015) Tsertos 89B 0.0012 - 0.0013 (0.0013 - 0.0014) Tsertos 88 Tsertos 88B 0.0011 - 0.0029 (0.0013 - 0.0019) Wimmersperg 87 0.0015 - 0.002 (0.0015 - 0.0016) Mills 87 0.0019 - 0.0027 (0.0016 - 0.0018) Connell 88 0.002 - 0.0029 (0.0016 - 0.0019) Lorenz 88 0.0022 - 0.0024 (0.0017 - 0.0017) Tsertos 89
0.18 (2.048) Mostovoj 87 0.2005 - 0.6505 (2.066 - 2.441) Platchkov 89 0.3 (2.155) Dmitriev 85 0.3 - 0.7 (2.155 - 2.479) Auffret 85 Auffret 85B 0.4 (2.24) Voitsekhovsk 86 0.5 - 1.2 (2.322 - 2.832) Cramer 85 0.538 - 0.779 (2.353 - 2.538) Esaulov 87 Esaulov 86 0.6455 (2.437) Gilman 90 0.65 - 0.85 (2.441 - 2.59) Garcon 89 0.7 - 1.3 (2.479 - 2.897) Bosted 89 Arnold 87 0.843 - 1.189 (2.585 - 2.825) Arnold 88	$e^- \text{C}$	$e^- \text{Ge}$	$e^- \text{Zr}$
	0.653 - 1.65 (11.82 - 12.73) Baran 88B 0.78 (11.94) Geesaman 89 0.96 - 1.5 (12.11 - 12.6) Sealock 89	$e^- \text{Zr}$	150 (157.7) Belkacein 85
	$e^- \text{C}$	$e^- \text{Zr}$	0.0205 - 0.1305 (83.86 - 83.97) Dodg 85
	0.653 - 1.65 (11.82 - 12.73) Baran 88B 0.78 (11.94) Geesaman 89 0.96 - 1.5 (12.11 - 12.6) Sealock 89	$e^- \text{Ag}$	0.0205 - 0.1005 (85.72 - 85.8) Dodg 85
	$e^- \text{C}$	2 - 4.5 (102.5 - 104.9) Aivazyan 86 Aivazyan 86B	$e^-^{163}\text{Ho}$
	0.653 - 1.65 (11.82 - 12.73) Baran 88B 0.78 (11.94) Geesaman 89 0.96 - 1.5 (12.11 - 12.6) Sealock 89	0 (151.8) Yasumi 86	

$e^+ e^-$

$e^+ e^-$

$e^+ e^-$
< 0.0056 (< 0.0025)
Klinken 88
0.69 - 0.94 (0.0266 - 0.031)
Ajaltonni 85B
9.784 - 1075 (0.1 - 1.048)
Druzhinin 84
10 (0.1011) Albrecht 85M
15 - 10 ³ (0.1238 - 1.011)
Kolanoski 87
29 (0.1722) Aihara 87B
Leclaire 87
50 - 57 (0.2261 - 0.2414)
Kim 89B
126.8 - 1918 (0.36 - 1.4)
Barkov 85
244.6 - 978.5 (0.5 - 1)
Dolinsky 88B
244.6 - 1079 (0.5 - 1.05)
Dolinsky 89
244.6 - 1918 (0.5 - 1.4)
Dolinsky 89B
Vorobiev 88C
Aulchenko 86
Vasserman 86B
400.8 - 1918 (0.64 - 1.4)
Kurdadze 88
Kurdadze 86
426.2 - 883.1 (0.66 - 0.95)
Vasserman 88
426.2 - 1918 (0.66 - 1.4)
Bukin 89
535.8 - 648.3 (0.74 - 0.814)
Aulchenko 87
565.2 - 626.2 (0.76 - 0.8)
Dolinsky 88
Barkov 87
690.4 - 1018 (0.84 - 1.02)
Barkov 89
706.9 - 988.3 (0.85 - 1.005)
Aulchenko 87C
(0.9 - 38) Klein 84B
978.5 - 1079 (1 - 1.05)
Landsberg 86
Druzhinin 85
Golubev 85
978.5 - 1918 (1 - 1.4)
Golubev 87
Dolinsky 86
Bondar 84
978.5 - 1079 (1 - 1.05)
Golubev 86
Vasserman 86
1016 - 1926 (1.019 - 1.403)
Barkov 88
1058 - 1918 (1.04 - 1.4)
Aulchenko 86C
1079 - 1918 (1.05 - 1.4)
Aulchenko 86B
Druzhinin 86
Dolinsky 85
1603 - 1918 (1.28 - 1.4)
Aulchenko 87B
1654 (1.3) Vasserman 87C
(1.35 - 2.4) Bisello 89B
Antonelli 88
Bisello 88B
Courau 86
(1.4 - 2) Luca 85
(1.4 - 2.4) Castro 88
(2.236 - 44.72) Marshall 89
(< 2.4) Salvini 88
(3 - 3.2) Bisello 88
Tixier 88
(3 - 5) Schindler 87
(3.095 - 29) Juricic 88
(3.1) Baltusaitis 85E
(3.45) Ajaltouni 87
(3.5 - 7.2) Barish 88
(3.6) Blinov 88B
Blinov 86B
Blinov 85C
(3.77) Coffman 87
(3.87 - 4.5) Osterheld 86

$e^+ e^-$
(.4.14) Bai 90
Adler 89B
Alder 89
Pitman 89
Toki 89B
Adler 88C
Blaylock 87
Stockdale 87
Wasserbaech 87
Schindler 86
Toki 86
(4.5 - 6.8) Klein 89C
(4.7 - 5.3) Albrecht 89F
Albrecht 88N
Albrecht 88R
Albrecht 87J
(5 - 7.4) Edwards 89
(6 - 23.39) Hill 89
(7 - 42) Bigi 84
(7.2 - 10) Blinov 85B
(7.2 - 10.4) Blinov 87C
(7.6 - 10.6) Baru 86
Blinov 86C
(7.7 - 47) Stirling 87
(9 - 29) Gidal 88C
(9.3 - 10.6) Albrecht 87L
(9.388 - 9.479) Jakubowski 88
(9.4 - 10.5) Albrecht 89W
Kaarsberg 89
Janssen 90
Marsiske 90
Albrecht 89
Albrecht 89K
Albrecht 88C
Albrecht 88J
Albrecht 88L
Albrecht 88O
Albrecht 88P
Albrecht 88Q
Williams 88
Albrecht 87C
Albrecht 87E
Albrecht 87I
Albrecht 87K
Albrecht 87N
Albrecht 87R
Albrecht 87S
Albrecht 87T
Skwarnicki 87B
Albrecht 85
Albrecht 85B
Albrecht 85D
Albrecht 85E
Albrecht 85G
(9.4 - 35) Berger 85
(9.44 - 10.6) Gray 87
(9.45 - 10.57) Cassel 85
(9.46) Blinov 85E
(9.46 - 51.7) Wu 87
(9.5 - 10.5) Albrecht 89R
(9.5 - 10.65) Maschmann 89
(9.8 - 10.3) Janssen 89
(9.8 - 10.6) Lowe 86C
(9.98) Albrecht 89H
(10) Albrecht 90
Albrecht 90B
Albrecht 89B
Albrecht 89G
Albrecht 89I
Albrecht 89O
Albrecht 89T
Albrecht 89V
Behrend 89F
Albrecht 88F
Albrecht 88H
Albrecht 88I
Albrecht 88S
Bienlein 88
Albrecht 87M
Antreasyan 87
Grab 87
Albrecht 86B
Albrecht 86E

$e^+ e^-$
Albrecht 86F
Albrecht 86G
Albrecht 85F
Albrecht 85J
(10 - 44.8) Saxon 86
(10 - 45) Mattig 89
Naroska 87
(10 - 52) Hofmann 87
(10 - 60) Kass 89
(10.02) Irion 85
(10.1 - 10.4) Albrecht 86
(10.2) Albrecht 87F
Keh 88B
Lurz 87
Skwarnicki 87
(10.2 - 10.5) Albrecht 89N
(10.3 - 10.5) Bowcock 88
(10.3 - 10.6) Haas 88
(10.34 - 11.18) Csorna 87
Behrendts 85B
(10.36 - 10.86) Bowcock 90
(10.38 - 10.58) Csorna 85
(10.5) Alexander 89
Bowcock 89
Bowcock 89B
Chen 89B
Avery 88
Baringer 87
Bebek 87
Haas 86
(10.5 - 10.65) Wachs 89
(10.5 - 10.7) Alam 89B
(10.5 - 10.85) Bowcock 85
(10.5 - 11.2) Besson 85
(10.52 - 10.58) Bartoletto 88
(10.52 - 10.86) Chen 89C
Jensen 89
(10.57 - 10.58) Bartoletto 86
(10.58) Bebek 86
Miller 89
Schubert 89
Bebek 87B
Csorna 87B
Helmsley 86
(10.6) Gentile 87
(10.6 - 11.2) Haas 85
(10.62 - 11.25) Han 85
(10.76) Alam 87
(12 - 41.5) Braunschweig 88C
(12 - 43.5) Braunschweig 89H
(12 - 46) Bartel 84G
(12 - 46.8) Braunschweig 89J
Braunschweig 89K
Braunschweig 88B
Braunschweig 87
(12 - 48.6) Marshall 85
(13.9 - 43.1) Althoff 84R
(14 - 22.5) Bartel 85
(14 - 33) Althoff 85B
(14 - 35) Roberts 86
(14 - 36) Althoff 86D
(14 - 43) Barreiro 85B
(14 - 43.7) Braunschweig 90
(14 - 44) Ouldsaada 88B
Bartel 86H
(14 - 44.6) Adeva 85B
(14 - 45) Hayes 89B
(14 - 46) Braunschweig 88G
(14 - 46.1) Adeva 88
(14 - 46.8) Behrend 89C
Behrend 89D
Braunschweig 89D
Behrend 88
Behrend 87D
Adeva 86B
Behrend 85B
(14 - 47) Adeva 86C

$e^+ e^-$
(15 - 45) Bartel 85F
(17) Gan 88
(17 - 17.5) Althoff 86
(17 - 34) Braunschweig 90B
(17.3) Collins 85E
(17.5) Bartel 85B
Behrend 88E
Althoff 85D
(22 - 38) Braunschweig 89E
(22 - 46.7) Bethke 88
(22 - 46.78) Adeva 85C
(22 - 50) Bethke 88B
(27) Aihara 86B
(27 - 37) Bartel 85E
(28 - 46.8) Braunschweig 89G
(29) Petradsa 90
Abachi 89
Abachi 89B
Abachi 89C
Abachi 89D
Aihara 89
Aihara 89B
Aihara 89C
Averill 89
Avery 89
Band 89
Bethke 89
Bethke 88B
Ford 89
Hawkins 89
Hawkins 89B
Hurst 89
Klein 89
Konamiya 89
Konamiya 89B
Ong 89
Petradsa 89
Porter 89
Riles 89
Riles 89B
Roe 89
Roe 89B
Snyder 89
Steele 89
Wagner 89B
Weir 89
Wu 89
Abachi 88
Abachi 88B
Abachi 88C
Aihara 88
Aihara 88B
Aihara 88C
Aihara 88E
Akerlof 88
Amidi 88
Band 88
Baringer 88
Cowan 88
Edberg 88
Gidal 88
Gidal 88B
Hearty 88
Karlen 88B
Karlen 88C
Klein 88
Mathis 88
Ong 88
Ong 88B
Petersen 88
Riles 88
Tschirhart 88
Wood 88
Wormser 88
Wormser 88B
Abachi 87
Abachi 87B
Abachi 87C
Abachi 87D
Abachi 87E
Abachi 87F
Aihara 87
Aihara 87C
Aihara 87D

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} , in GrV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

$e^+ e^-$ $e^+ e^-$

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
Aihara 87E	Bintinger 85	(34.8 - 42.1)	Braunschweig 89I
Aihara 87F	Burchat 85	(34.8 - 43.9)	Bartel 86B
Aihara 87G	Delavaissier 85	(35)	Bartel 86E
Ash 87	Derrick 85		Behrend 89B
Ash 87B	Derrick 85B		Behrend 89H
Band 87	Derrick 85C		Braunschweig 89L
Brom 87	Derrick 85D		Hegner 89
Bylsma 87	Derrick 85E		Ouldsaada 89
Camporest 87	Derrick 85F		Braunschweig 88
Derrick 87	Derrick 85G		Braunschweig 88E
Derrick 87B	Feldman 85		Bartel 86
Derrick 87C	Fernandez 85		Berger 85B
Fernandez 87	Fernandez 85B	(35 - 36.3)	Braunschweig 88D
Fernandez 87B	Fernandez 85C	(35 - 42.4)	Braunschweig 89F
Fernandez 87C	Fernandez 85D	(35 - 43)	Behrend 89J
Ford 87	Forden 55B	(35 - 44)	Kroha 89B
Ford 87B	Gan 85		Elsen 90
Ford 87C	Gan 85B		Greenshaw 89
Gan 87	Gidali 85		Pitzl 89
Gan 87B	Gladney 85		Braunschweig 87B
Hearty 87	Hofmann 85	(35 - 46)	Braunschweig 89C
Johnson 87	Hollebeek 85	(35 - 46.57)	Behrend 86D
Klein 87	Kesten 85	(35 - 46.6)	Braunschweig 88F
Klein 87B	Koltick 85B	(35 - 46.8)	Behrend 88E
Low 87	Matteuzzi 85		Behrend 88G
Ong 87	Mills 85	(36.5)	Bartel 87B
Ruzzi 87	Perl 85		Bartel 86C
Rouse 87	Petersen 85		Behrend 87B
Wagner 87	Rosenberg 85B	(38.3 - 46.3)	Behrend 87E
Wendt 87	Rowson 85	(38.3 - 46.8)	Behrend 87E
Wormser 87	Rowson 85B	(38.66 - 46.3)	Kuhlen 86B
Abachi 86	Sakuda 85	(39 - 46.8)	Bartel 87
Abachi 86B	Schaad 85	(39.5)	Adeva 87
Abachi 86C	Schellman 85	(39.79 - 46.72)	
Abachi 86D	Yamamoto 85		Althoff 85
Aihara 86	Yamamoto 85B	(39.79 - 46.78)	Adeva 86
Aihara 86C	Yamamoto 85C		Bartel 85M
Aihara 86D	Yamamoto 85E		Haisinski 85
Aihara 86E	Aihara 84F	(40 - 46.7)	Adeva 85
Aihara 86F	Aihara 84G	(40 - 46.78)	Behrend 85
Aihara 86G	Bender 84C	(40 - 47)	Komamiya 85
Aihara 86H	Fernandez 84C	(42.2)	Althoff 86C
Aihara 86I	Goldhaber 85C	(42.5 - 46.8)	Behrend 87C
Baden 86	Buschbeck 89	(42.6)	Behrend 86D
Baringer 86	Althoff 85F	(43)	Behrend 86B
Bartha 86	Piccolo 89	(43.6)	Kiesling 85
Boyer 86	Grivaz 88	(44)	Ganser 89
Burchat 86	Naroska 85	(44.2)	Behrend 88C
Burchat 86B	Barlow 87		Aleksan 86
Derrick 86	Whitaker 86	(46.8)	Behrend 87
Derrick 86B	Bartel 85J	(50 - 52)	Behrend 86C
Derrick 86C	Ferrarotto 88		Kinoshita 88B
Derrick 86D	Venkataraman 85B		Sagawa 88
Ford 86	Kleinwort 89		Abe 87C
Gladney 86B	Ouldsaada 88		Igarashi 87
Gold 86	Bartel 86D		Miyamoto 87
Hollebeek 86	Bartel 85L		Sakai 87
Johnson 86	Bartel 85C		Yoshida 87B
Jung 86	Althoff 86B	(50 - 55)	Abe 88B
Klem 86	Althoff 85C		Albrow 88
Madaras 86	Bartel 87C		Masuda 88
Pal 86	Behrend 86		Sugahara 88
Perl 86	Hofmann 87B	(50 - 56)	Ko 88
Petersen 86C	Althoff 85E		Kinoshita 88C
Ruckstuhl 86	Bartel 85H		Mori 88
Schmidke 86	Braunschweig 89		Myung 88
Sheldon 86	Braunschweig 89B		Park 88
Sugano 86	Bartel 85D		Rosenfeld 88
Wu 86	Berger 88		Shirai 88
Yelton 86	Berger 87		Son 88
Aihara 85	(34.57 - 43.7)		Eno 89
Aihara 85B	Bartel 85K	(50 - 57)	Mori 89
Aihara 85C	Berger 87C		Mori 89B
Aihara 85D	Bartel 86F		Park 89
Aihara 85E	Bartel 86G		Park 89B
Aihara 85F	Braunschweig 86		Sasaki 89
Aihara 85G	Berger 85D		Kamae 88
Akerlof 85	Berger 85E		Kichimi 88
Akerlof 85B	Berger 85F		Mcneil 88
Ash 85B	Berger 85G		Sakuda 88
Ash 85C	Berger 86	(34.68)	
A-h 85D	Berger 87	(34.7)	
Bartel 85G	Berger 88B		
Beltrami 85	Berger 85H		
			(50 - 60.4)
			(50 - 60.8)
			(52)
			(52 - 57)
			(52 - 60.8)
			(52 - 61.4)
			(53.3 - 59.5)
			(54 - 61.4)
			(54.5)
			(55 - 56)
			(55 - 57)
			(55 - 60.8)
			(56)
			(56 - 57)
			(56 - 60.8)
			(56.5 - 60.8)
			(60.8)
			(89.2 - 93)
			(91.1)
			?
			Yamauchi 88
			Zheng 90
			Sakai 90
			Stuart 90
			Abe 89P
			Bodek 89
			Eno 89B
			Eno 89C
			Kim 89C
			Kim 89E
			Kim 89G
			Kinoshita 89B
			Kurihara 89
			Low 89
			Sakai 89
			Shaw 89
			Adachi 90B
			Ho 89
			Iwasaki 89
			Kim 89F
			Kumita 89B
			Maki 89
			Myung 89
			Adachi 88
			Adachi 88B
			Adachi 88C
			Abe 87
			Adachi 87
			Amako 87
			Yoshida 87
			Adachi 88D
			Bacala 88
			Kim 88B
			Kim 88C
			Tauchi 88
			Adachi 89
			Li 89
			Li 89B
			Metcalf 89
			Sagawa 89
			Bacala 88B
			Takahashi 88
			Adachi 89B
			Adachi 89D
			Ogawa 90C
			Adachi 90C
			Abe 89K
			Adachi 89C
			Abe 90
			Abe 90C
			Abe 89I
			Olsen 88
			Sumiyoshi 88
			Abe 89F
			Unno 88
			Adachi 90
			Abe 89J
			Odaka 89
			Abe 88D
			Abe 88E
			Kim 88
			Kim 88D
			Maki 88
			Abe 88F
			Nozaki 89
			Adachi 89E
			Kumita 89
			Fry 89
			Abrams 89D
			Jung 89
			Abrams 89E
			Aarnio 90
			Aarnio 90B
			Abreu 90
			Abreu 90B
			Abreu 90C
			Abreu 90D
			Abreu 90E
			Abreu 90F
			Adeva 90
			Adeva 90B
			Adeva 90C
			Adeva 90D
			Akraway 90

$e^+ e^-$

$\mu^+ p$

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$	μ^- deuteron
Akrawy 90B	Fulton 89	Voloshin 87	1 - 400 (2.702 - 38.78)
Akrawy 90C	Fulton 89B	Alan 86	Berger 86B
Akrawy 90D	Halling 89	Albrecht 86C	$\mu^-^{12}\text{C}$
Akrawy 90E	Harder 89	Albrecht 86D	0 (11.29) Hasinoff 89
Akrawy 90F	Hearty 89	Baltrusaitis 86B	Hasinoff 88
Akrawy 90G	Ilep 89	Baltrusaitis 86C	$\mu^- \text{C}$
Akrawy 90H	Komamiya 89C	Baltrusaitis 86D	120 - 280 (53.01 - 79.94)
Akrawy 90I	Kral 89	Baltrusaitis 86E	Benvenuti 87
Akrawy 90J	Kreinick 89	Baru 86B	Benvenuti 87C
Akrawy 90K	Lockman 89	Bean 86	Benvenuti 85
Akrawy 90L	Mallik 89B	Bisello 86	$\mu^-^{16}\text{O}$
Akrawy 90M	Mir 89	Bisello 86B	0 (15.01) Hasinoff 89
Akrawy 90N	Nash 89	Bowcock 86	Hasinoff 88
Albrecht 90D	Schindler 89	Csorna 86	$\mu^-^{32}\text{S}$
Albrecht 90E	Schutte 89	Kolanoski 86	0 (29.91) Schaller 85
Alexander 90	Stoker 89	Konigsmann 86	$\mu^-^{34}\text{S}$
Barklow 90	Szklarz 89	Leffer 86	0 (31.81) Schaller 85
Bisello 90	Toki 89	Lowe 86	$\mu^-^{36}\text{S}$
Bortoletto 90	Wasserbaech 89	Lowe 86B	0 (33.61) Schaller 85
Burchat 90	Weinstein 89	M \geq geras 86	$\mu^-^{40}\text{Ca}$
Decamp 90	Adler 88	Stockhausen 86	0 (37.37) Hasinoff 89
Decamp 90B	Adler 88B	Albrecht 85C	Hasinoff 88
Decamp 90C	Adler 88D	Albrecht 85H	$\mu^- \text{Ti}$
Decamp 90D	Adler 88F	Albrecht 85I	0 (44.73) Ahmad 88
Decamp 90E	Ajaltouni 88	Albrecht 85K	Ahmad 87
Decamp 90F	Ajaltouni 88B	Albrecht 85L	Numao 86
Decamp 90G	Albrecht 88D	Albrecht 85N	Numao 86B
Decamp 90H	Albrecht 88E	Augustin 85	0.073 (44.75) Blecher 87
Decamp 90I	Albrecht 88G	Augustin 85B	Burnham 87
Decamp 90J	Albrecht 88H	Augustin 85C	Bryman 85
Komamiya 90	Albrecht 88M	Augustin 85D	$\mu^- \text{Fe}$
Kuhlen 90	Albrecht 88T	Augustin 85E	50 - 120 (88.93 - 123.3)
Nash 90	Augustin 88	Avery 85	Kopp 85
Soderstrom 90	Augustin 88B	Baltrusaitis 85B	93 - 215 (111.3 - 158.4)
Weir 90	Chan 88	Baltrusaitis 85D	Meyers 86
Aarnio 89	Coffman 88	Baltrusaitis 85F	$\mu^-^{90}\text{Zr}$
Abrams 89	Druzhinin 88	Baltrusaitis 85G	0 (83.94) Phan 85
Abrams 89B	Fairfield 88	Baltrusaitis 85J	$\mu^-^{162}\text{Sm}$
Abrams 89C	Falvard 88	Barkov 85B	0 (141.7) Mitropolskii 87
Abrams 89F	Gan 88B	Baru 85	$\mu^- \text{nucleus}$
Adeva 89	Grab 88	Behrends 85	32 Rabin 86
Adeva 89B	Hitlin 88	Berger 85C	150 Jain 88
Adler 89	Izen 88	Bloom 85C	μ^-
Adler 89C	Jousset 88	Chen 85	> 0.165 Oyama 87
Adler 89D	Mir 88	Coward 85	$\mu^+ e^-$
Adler 89E	Schindler 88	Gaiser 85	0.01 (0.1062) Ni 87
Akrawy 89	Schmitt 88	Jeanmarie 85	0.02 (0.1062) Huber 88
Akrawy 89B	Sedlak 88	Koenigsmann 85	Beer 86
Akrawy 89C	Stanco 88	Kolanoski 85	0.02 - 0.029 (0.1062) Huber 89
Akrawy 89D	Thorndike 88	Landsberg 85	Janissen 89
Akrawy 89E	Toki 88	Lee 85B	$\mu^+ p$
Alan 89	Toki 88B	Lovelock 85	1 - 400 (1.667 - 27.41)
Albrecht 89C	Adler 87	Lowe 85	Berger 86B
Albrecht 89E	Adler 87B	Mestayer 85	100 - 200 (13.73 - 19.4)
Albrecht 89J	Alan 87B	Odian 85	Ashman 89
Albrecht 89L	Albrecht 87B	Richman 85	Ashman 88B
Albrecht 89Q	Albrecht 87D	Rosner 85E	100 - 280 (13.73 - 22.94)
Albrecht 89S	Albrecht 87G	Schindler 85	Benvenuti 89
Albrecht 89U	Albrecht 87H	Skwarnicki 85B	Benvenuti 89C
Albrecht 89X	Albrecht 87O	Toki 85B	Benvenuti 87D
Artuso 89	Albrecht 87P	Tsukerman 85B	120 - 200 (15.04 - 19.4)
Atoyán 89	Albrecht 87Q	Walk 85	Ashman 88C
Avery 89B	Augustin 87	Achasov 84F	120 - 280 (15.04 - 22.94)
Baru 89	Baltrusaitis 87		Arneodo 85B
Bebek 89	Barkov 87B	$e^+ \text{nucleus}$	
Bisello 89	Barkov 87C	20.5 Fredriksson 87	
Bortoletto 89	Baru 87	$e^+ \text{nucleus}$	
Bortoletto 89B	Bean 87	5 Degtyarenko 90	
Browder 89	Becker 87B	Degtyarenko 89	
Burchat 89	Becker 87C	$d \text{ gluon}$	
Chen 89	Behrends 87	? Breakstone 90	
Coffman 89	Berger 87B	$u \text{ gluon}$	
Danilov 89	Bisello 87	? Breakstone 90	
Decamp 89	Bowcock 87	$\mu^- p$	
Decamp 89B	Brient 87	1 - 400 (1.667 - 27.41)	
Decamp 89C	Gittelman 87	Berger 86B	
Decamp 89D	Henrad 87	$\mu^- \text{nucleon}$	
Decamp 89E	Kaarsberg 87	1 - 400 (1.669 - 27.44)	
Decamp 89G	Pallin 87	Berger 86B	
Decamp 89H	Stockhausen 87		
Deinugh 89	Stockhausen 87B		
Drell 89	Tuts 87		
Feldman 89	Vasserman 87B		
Feldman 89B			
Franzini 89			

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

$\mu^+ p$ $\pi^- p$

$\mu^+ p$		$\mu^+ Fe$		$\pi^- p$		$\pi^- p$	
	Aubert 85B Aubert 85C Aubert 85D 200 (19.4) Aubert 89 240 - 280 (21.24 - 22.94) Aubert 86C 280 (22.94) Derado 90 Arneodo 89 Arneodo 88B Arneodo 87C Grab 87 Arneodo 86C Arneodo 86D Arneodo 86E Arneodo 86H Aubert 86 Arneodo 85 Aubert 85 Aubert 84C	250 (169.5) Aubert 84C 280 (178.4) Bari 85 ? Benvenuti 86	$\mu^+ Cu$ 100 - 280 (123.9 - 191.5) Ashman 88	$\pi^- p$			
$\mu^+ nucleon$		$\mu^+ Sn$					
0.0786 (1.069) Hogan 86 1 - 400 (1.669 - 27.44) Berger 86B 150 (16.82) Jain 87C 200 (19.41) Arneodo 86F 280 (22.96) Arneodo 87		100 - 280 (185.3 - 272.3) Ashman 88	$\mu^+ nucleus$ 32 Rabin 86 280 Fredriksson 87	0.03 - 0.67 (1.081 - 1.478) Brack 89 0.0456 - 0.1219 (1.084 - 1.117) Bagheri 87 0.0773 (1.095) Stanislaus 89 0.1006 - 0.1471 (1.106 - 1.132) Fitzgerald 86 0.1217 - 0.2211 (1.117 - 1.179) Bagheri 87B 0.1356 (1.125) Wiedner 89 Wiedner 87 0.2445 - 0.4168 (1.195 - 1.313) Ottermann 85F 0.2696 (1.212) Alekseev 87B 0.29 - 0.45 (1.226 - 1.336) Kernel 89B Kernel 89 0.295 - 0.5 (1.23 - 1.336) Felipic 89 0.301 - 0.625 (1.234 - 1.45) Kim 90 Kim 89 0.378 - 0.687 (1.287 - 1.488) Sadler 87 0.427 - 0.625 (1.32 - 1.45) Kim 89D Kim 86 0.45 (1.336) Bekrenev 86 0.45 - 0.56 (1.336 - 1.408) Abaev 88B 0.4567 (1.34) Balandin 85 0.471 - 0.625 (1.35 - 1.45) Barlow 89 0.471 - 0.687 (1.35 - 1.488) Mokhtari 86 Mokhtari 86B 0.547 - 0.625 (1.4 - 1.45) Seftor 89 0.547 - 0.687 (1.4 - 1.488) Wightman 88 Wightman 87 0.5728 (1.416) Bekrenev 86B < 1.232 (< 1.796) Ardt 85 1.43 - 2.07 (1.896 - 2.189) Alekseev 89 Alekseev 88B Budkovsky 85 1.84 - 2.63 (2.089 - 2.417) Abramov 88 2.969 - 3.965 (2.545 - 2.889) Suzuki 87 2.969 - 4.22 (2.545 - 2.97) Minowa 87 3.15 - 7.9 (2.611 - 3.966) Bachman 85 3.3 (2.664) Arkhipov 86 3.3 - 4.75 (2.664 - 3.133) Arkhipov 88 Arkhipov 87 4 (2.9) Andryakov 87 4 - 205 (2.9 - 19.64) Panagiotou 89 4.314 (3) Andryakov 88 4.314 - 76.26 (3 - 12) Zhokin 89 (3 - 540) Prokoshkin 87C 4.35 - 4.85 (3.011 - 3.163) Aleshin 85 Arutyunyan 85 Aleshin 84 Perpelitsa 88 Aleshin 87C Aleshin 87D Aleshin 87D Perpelitsa 87 Aleshin 86B Aleshin 86B 4.9 (3.178) Dzincharadz 86 4.91 (3.181) Glagolev 85 5 (3.207) Antos 88 Antos 87 Bajramov 86 5 - 40 (3.207 - 8.716) Bajramov 89	$\mu^+ p$ 100 - 280 (13.73 - 22.94) Nagy 89	$\pi^- p$	5.7 - 205 (3.406 - 19.64) Baldin 87 8 (3.989) Augustin 88C Birman 88 Toki 88B Chung 85 8 - 12 (3.989 - 4.839) Armstrong 87C Armstrong 86F 8 - 40 (3.989 - 8.716) Landsberg 86 Inagaki 89B Takamatsu 89 8.01 (3.992) Ando 86 8.06 (4.003) Fukui 88 8.95 (4.207) Baller 88 9.9 (4.414) Blazey 85 Heppelmann 85 13 (5.03) Chiang 86 Christenson 85 16 (5.561) Karnaukhov 87 Karnaukhov 86 17.2 (5.76) Rybicki 86 Svec 84 17.2 - 63 (5.76 - 10.91) Rybicki 85 20 - 50 (6.199 - 9.733) Asad 85 21.4 (6.408) Chan 88 22 (6.495) Rath 89 Etkin 88 Longacre 87 Longacre 86 Longacre 86B Etkin 85 Tsukerman 85B 25 (6.915) Apel 85B 25 - 33 (6.915 - 7.926) Landsberg 85 30 (7.563) Beusch 86 Abreu 85 30 - 38 (7.563 - 8.498) Alde 87B 32.5 (7.867) Bituykov 90 Bituykov 89 Bituykov 88 Landsberg 88 Bituykov 87 Landsberg 87 Bituykov 86 Bituykov 85 Bituykov 85C 38 (8.498) Alde 90 Alde 89 Alde 88C Alde 88D Bannikov 88 Boos 87B Alde 86B Alde 86C Alde 86D 38 - 100 (8.498 - 13.73) Toki 87 Alde 86E 39.1 (8.618) Apokin 88 Apokin 86C Gabusnia 90 Amaglobeli 89 Antipov 89B Apokin 89 Gabusnia 89 Apokin 88B Baldin 88B Bolonkin 88 Antipov 87B Baloshin 87 Bolonkin 87 Prokoshkin 87B Siksin 87 Apokin 86 Apokin 86B Avvakumov 86 Avvakumov 86B
$\mu^+ deuteron$		$\mu^+ p$					
1 - 400 (2.702 - 38.78) Berger 86B 100 - 280 (19.46 - 32.46) Ashman 88 120 - 280 (21.3 - 32.46) Benvenuti 89B 200 (27.45) Benvenuti 87B 280 (32.46) Arneodo 89 Arneodo 89B Arneodo 88 Arneodo 88B Arneodo 87C Aubert 87 Grab 87 Arneodo 86H Aubert 86 Aubert 86C Aubert 85 Aubert 85E Bari 85 Aubert 84C Benvenuti 86		$\mu^+ deuteron$ 100 - 280 (19.46 - 32.46) Nagy 89	$\mu^+ \text{}^7\text{Li}$ 0 (6.626) Ruckstuhl 85B				
$\mu^+ C$		$\mu^+ \text{}^{13}\text{C}$					
100 - 280 (48.61 - 79.94) Ashman 88 110 - 120 (50.86 - 53.01) Kopp 85 120 - 280 (53.01 - 79.94) Benvenuti 87 Benvenuti 87C 200 (67.83) Benvenuti 85 280 (79.94) Arneodo 89B Arneodo 88		0 (12.21) Deboer 85	$\mu^+ \text{}^{13}\text{C}$ 0 (22.46) Beltrami 85B				
$\mu^+ Nit$		$\mu^+ \text{}^{24}\text{Mg}$					
120 - 200 (57.46 - 73.41) Ashman 88C 280 (86.47) Bari 85		0 (22.46) Beltrami 85B	$\mu^+ \text{}^{28}\text{Si}$ 0 (26.19) Beltrami 85B				
$\mu^+ Ca$		$\mu^+ nucleus$					
280 (149.3) Arneodo 89B Arneodo 88		4.999 - 150 Asatiani 85 32 Rabin 88 Rabin 85 Nagy 89 100 - 280 400 - 5 · 10 ³ Zatsopin 89	$\mu^+ nucleus$ 4.999 - 150 Asatiani 85 32 Rabin 88 Rabin 85 Nagy 89 100 - 280 400 - 5 · 10 ³ Zatsopin 89				
$\mu^+ Fe$		$\pi^- e^-$					
50 - 120 (88.93 - 123.3) Kopp 85 93 - 215 (111.3 - 158.4) Meyers 86 120 - 280 (123.3 - 178.4) Aubert 86B 200 (153.3) Benvenuti 87B Arneodo 86F		300 (0.571) Amendolia 86 Amendolia 85	$\pi^- p$ 0 (1.078) Niebuhr 89 Crawford 88 Crawford 86 Bovet 84				

$\pi^- p$

$\pi^- C$

$\pi^- p$	π^- nucleon	$\pi^- He$	$\pi^- C$
Baldin 86 Baldin 86B Apel 85 Apokin 85B Baldin 85 Baldin 85B Grishin 85 Grishin 85B Grishin 85C Kazarinov 85 Provoshkin 85 Avvakumov 84 Baloshin 84 Borisov 84 40 - 100 (8.716 - 13.73) Prokoshkin 87 40 - 225 (8.716 - 20.57) Rutherford 85 58 (10.48) Paub 85 80 - 140 (12.29 - 16.24) Apsimon 90 Apsimon 89 Boutemour 89 Alde 88E Boutemour 88 Iddir 88 Alde 87D Alde 86 Augustin 85E Chapin 85 < 200 (< 19.4) Hohler 89 Tannenbaum 89 Becker 87 Kennett 87 Arenton 86 Naudet 86 Arenton 85B Adamus 87B Bonvin 90 Bonesini 89 Bonesini 89B Bonvin 89 Bonesini 88 Bonesini 87 280 - 300 (22.94 - 23.75) Lancon 86B 300 (23.75) Demarzo 87 Demarzo 87B Richard 87 Richard 87 Ferbil 86 Albanese 85 350 (25.65) 360 (26.01) Aguilarbenit 89 Klein 89C Aguilarbenit 87B Aguilarbenit 87D Aguilarbenit 87E Aguilarbenit 87F Aguilarbenit 87H Bailly 87C Bailly 87G Bailly 87H Verbeure 87 Aguilarbenit 86 Aguilarbenit 86B Aguilarbenit 86C Aguilarbenit 86D Bailly 86 Aguilarbenit 85 Aguilarbenit 85C Aguilarbenit 85D Aguilarbenit 85E Aguilarbenit 85F (10.58) $\pi^- n$ 1.4 - 5 (1.883 - 3.21) Bayukov 85F 1.84 - 2.63 (2.09 - 2.419) Abramov 88 21 (6.353) Stopa 87 40 (8.722) Grishin 85B < 200 (< 19.41) Hohler 89	4 (2.903) Artykov 86B 50 (9.742) Bajramov 89 80 (12.3) Palestini 85 200 (19.41) Joyner 89 Mikocki 86 Fitch 86 250 (21.7) Conway 89 252 (21.79) Alde 88B 300 (23.77) Augustin 88C Alde 87 Alde 87C Catanesi 88 320 (24.55) π^- deuteron 0 (2.015) Bovet 84 0.0773 (2.034) Stanislaus 89 0.143 - 0.256 (2.07 - 2.152) Smith 87C 0.1947 - 0.5212 (2.106 - 2.358) Arviux 84C 0.2 - 1.2 (2.11 - 2.841) Yokosawa 85 0.2146 (2.121) Ashery 88 0.2236 - 0.4421 (2.127 - 2.297) Ottermann 85B 0.2353 - 0.3701 (2.136 - 2.241) Ungricht 85 0.2422 (2.142) Blankleider 84 0.25 - 0.65 (2.147 - 2.456) Boschitz 86 0.2537 (2.15) Goetz 85 0.3 - 1.2 (2.186 - 2.841) Yokosawa 85C 0.4075 (2.27) Parker 89 0.86 - 1.16 (2.609 - 2.814) Abramov 89B 0.98 - 3.09 (2.693 - 3.891) Chuvilo 86 1.75 - 3.99 (3.182 - 3.891) Abramov 87 Abramov 85 3.234 - 3.663) Abramov 88 21 (9.073) Stopa 87 38 (12.09) Boos 87B 40 (12.39) Amaglobeli 89 Apokin 89 Apokin 88C 140 - 286 (22.99 - 32.81) Bordalo 87 Bordalo 87 Bordalo 87B 286 (32.81) Guanziroli 87 Richard 87 $\pi^- {}^3H$ 0.2445 - 0.3314 (3.066 - 3.137) Pillai 88 $\pi^- {}^3He$ 0 (2.934) Backenstoss 85 0.1461 - 0.1731 (2.995 - 3.012) Aniol 85 0.1922 - 0.3183 (3.026 - 3.126) Marx 86 0.22 (3.047) Backenstoss 85B 0.2445 - 0.3314 (3.066 - 3.137) Pillai 88 < 0.2875 (< 3.101) Redwine 86 0.4693 - 0.5985 (3.25 - 3.356) Boswell 86 0.59 - 0.68 (3.349 - 3.422) Peng 89 0.68 (3.422) Peng 87 $\pi^- {}^4He$ 0.1283 - 0.4168 (3.913 - 4.145) Marx 86 0.2189 - 0.3183 (3.98 - 4.061) Balestra 86 $\pi^- He$ 0.2875 - 0.353 (4.038 - 4.093) Gram 89	$\pi^- He$ 0.4693 - 0.5985 (4.192 - 4.302) Boswell 86 $\pi^- {}^6Li$ 0 (5.729) Amelin 90 Doerr 86 0.2875 - 0.353 (5.902 - 5.958) Gram 89 1.5 (6.935) Burgov 87 5 (9.336) Bayukov 85D Gavrillov 85B $\pi^- Li$ 1.5 (7.829) Buklej 86 40 (23.64) Boos 88 $\pi^- {}^7Li$ 0 (6.66) Amelin 90 0.2707 (6.819) Marx 86 0.2875 - 0.353 (6.834 - 6.891) Gram 89 Bayukov 85D Gavrillov 85B $\pi^- {}^9Be$ 0 (8.523) Gornov 87 $\pi^- Be$ 0 (8.534) Gornov 88 Gornov 87B Gornov 86B 0.2875 - 0.353 (8.71 - 8.767) Gram 89 1.26 - 2.5 (9.58 - 10.61) Kuzichev 89 Vorobiev 85B 5 (12.43) Bayukov 85D Antipov 87 Antipov 85 Zajmidoroga 85 Bellini 84 85 (38.7) Augustin 88C Booth 86 Augustin 85E Loth 85 100 (41.83) Dijkstra 86C Dijkstra 86D 100 - 200 (41.83 - 58.55) Dijkstra 86 125 (46.57) Katsanevas 87 190 (57.1) Bauer 85 Ginther 87 Grab 87 Palka 87 Palka 87B Bailey 85 Bailey 85C Mooney 89 225 (62.03) Budd 85 300 (71.47) Benayoun 87B Benayoun 86 $\pi^- {}^{10}Bor$ 5 (13.42) Bayukov 85D Gavrillov 85B $\pi^- {}^{11}Bor$ 5 (14.4) Bayukov 85D $\pi^- {}^{12}C$ 0.2696 (11.48) Alekseev 87B 0.2707 (11.48) Marx 86 5 (15.39) Abdinov 86B Abdinov 84B 5 - 40 (15.39 - 31.93) Bajramov 89 39.1 (31.61) Apokin 89B 40 (31.93) Angelov 89 Allaberdin 87 $\pi^- C$ 0 (11.33) Gornov 88 Gornov 87B Gornov 86B	$\pi^- C$ 0.2875 - 0.353 (11.5 - 11.56) Gram 89 0.6 (11.79) Golubeva 89 0.85 - 2.5 (12.02 - 13.46) Golubeva 89 1.1 (12.25) Golubeva 90 1.2 - 5 (12.34 - 15.4) Vorobiev 89C Vorobiev 87B 1.26 - 2.5 (12.39 - 13.46) Kuzichev 89 1.4 - 5 (12.52 - 15.4) Bayukov 85C Bayukov 85E Bayukov 85F Burgov 87 Buklej 86 Burgov 85 3 (13.87) Vorobiev 88E Vorobiev 85B 4 (14.65) Istmatorva 85B Vorobiev 85 4 - 40 (14.65 - 31.94) Zielinsky 88 Azimov 86 Istmatorva 85 Azimov 84B Azimov 84C 4.7 (15.18) Agababyan 85B 5 (15.4) Vorobiev 89B Vorobiev 88D Arakelyan 87 Gulkanyan 87 Abdinov 86 Abdinov 86C Abdinov 86D Asaturyan 86 Bajramov 86 Vorobiev 86B Bayukov 85D 5.7 - 205 (15.9 - 68.65) Baldin 87 30 (28.22) Beusch 86 Abreu 85 38 (31.23) Bannikov 89B Barwolf 88 Boos 87B Jani 87 Barwolf 85 Apokin 86C Artykov 90 Baatar 90B Gabusia 90 Aliev 89 Baatar 89 Baatar 89B Bannikov 89 Gabusia 89 Angelov 88 Baatar 88 Baatar 88B Baldin 88B Baldin 88C Boos 88 Agakishiev 87B Agakishiev 87C Anoshin 87 Armutljiskiy 87C Baatar 87 Baatar 87B Fredriksson 87 Ananieva 86 Antipov 86 Antipov 86B Baldin 86 Baldin 86B Kopylova 86B Albini 85 Antipov 85 Antipov 85B Antipov 85C Baatar 85

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} , in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_m (in parentheses) is given. See the legend on page 123.

π^- C π^- Pb

π^- C	Baldin 85 Baldin 85B Beshliu 85 Grishin 85B Vishnyakov 85 Zajmidoroga 85 Bellini 84 Badier 85C Badier 85E Badier 85F Bardadinotwi 85 Kartik 90 De 89	π^- Si	Gornov 87B Gornov 86B 0.1283 - 0.6242 (26.35 - 26.79) Dropsky 86 Vegni 86 Zajmidoroga 85 Bellini 84 Barlag 88 Barlag 87	π^- Cu	39.1 (90.19) 40 (90.77) Apokin 86D Gabunia 90 Bannikov 89 Gabunia 89 Boos 88 Ananieva 86 Albini 85 Antipov 85 Vishnyakov 85 Zajmidoroga 85 Bellini 84 Antipov 89 Antipov 88 Antipov 88B Antipov 86C Katsanevas 87 Capraro 87 Barlag 90 Barlag 90B Barlag 90C Barlag 90D Barlag 89 Barlag 89B Barlag 89C Klein 89C Barlag 88B Barlag 88C Barlag 88D Barlag 86 Kartik 90 De 89	π^- ¹²⁴ Sn	5 (120.4) Bayukov 85D Gavrilov 85B
200 (67.83)		40 (52.7)		50 (97.08)		π^- ¹³¹ Xe	3.5 (125.5) Pavlyak 86 Pavlyak 86B
530 (109.5)		π^- S	40 (57.28) Boos 88	125 (135.3) 200 (164.9) 230 (175.3)		π^- Xe	0 (122.4) Barmin 89 2.34 - 9 (124.6 - 131) Brimin 89 3.5 (125.8) Strugalski 88 Abdurakhimov 88B Grishin 88 Pluta 88 Pluta 88B Strugalski 88C Miller 87B Okhrimenko 87 Bartke 86 Grishin 86B Strugalski 86 Strugalski 85 Strugalski 85B Fredriksson 87
π^- ¹⁴ C	0.1283 (13.23) Mishra 85 0.2696 (13.34) Holtkamp 85	π^- Cl	530 (197.1) De 89	530 (257.4)		π^- Ta	9 (131) Agakishiev 87C Zajmidoroga 85 Bellini 84
π^- ¹⁵ Nit	0.2696 (14.27) Seestrommorr 85	π^- ⁴⁰ Ar	0.2875 (37.58) Germond 85C	π^- ⁶⁴ Ni	5 (64.42) Bayukov 85D Gavrilov 85B	π^- Wt	80 (238.2) Palestini 85 125 (268.6) Anassontzis 87 Katsanevas 87 140 - 286 (278 - 356.8) Bordalo 88 Guanziroli 88 Bordalo 87 Bordalo 87B Richard 87 Falciano 86 Betev 85 Betev 85B Ereditato 85 Falciano 85 Grab 87 Louis 86 Heinrich 89 Conway 89 Bisno 87 263 (345.6) Alexander 86 286 (356.8) Crossmanhand 86 300 (363.4) Badier 85
π^- ¹⁶ O	0.2189 - 0.3851 (15.16 - 15.3) Wood 85 0.3583 (15.28) Redwine 86	π^- ⁴⁰ Ca	0.2189 - 0.3851 (37.52 - 37.67) Wood 85 0.2306 (37.53) Ullmann 85	π^- Zn	5 (65.71) Bayukov 85D	π^- Au	0.1426 - 0.1947 (184.5 - 184.6) Hicks 85 100 (266.2) Biswas 86
π^- O	0.2875 - 0.353 (15.22 - 15.28) Gram 89 1.5 (16.34) Burgov 87	π^- Ca	0.2875 - 0.353 (37.65 - 37.71) Gram 89	π^- Ge	0 (67.76) Gornov 88 Gornov 87B Gornov 86B	π^- Pb	0.2707 (193.3) Marx 86 0.2875 - 0.353 (193.3 - 193.4) Gram 89 0.6 (193.6) Golubeva 89 1.2 - 5 (194.2 - 197.9) Vorobiev 89C Vorobiev 89B Vorobiev 87B 1.26 - 2.5 (194.3 - 195.5) Kuzichev 89 1.4 - 5 (194.4 - 197.9) Bayukov 85C Bayukov 85E Bayukov 85F Burgov 87 Buklej 86 Vorobiev 88E Vorobiev 85B Vorobiev 88D Vorobiev 86B Beusch 86 Abreu 85 Barwolf 88
π^- ¹⁸ O	0.3583 (17.15) Redwine 86	π^- ⁴⁵ Sc	0.1947 - 0.4168 (42.14 - 42.34) Ohkubo 85	π^- Rh	0.2875 - 0.353 (96.18 - 96.24) Gram 89		
π^- Fl	5 (22.14) Bayukov 85D	π^- Ti	40 (74.57) Zajmidoroga 85 Bellini 84	π^- Ag	40 (134.7) Zajmidoroga 85 Bellini 84		
π^- Ne	6.2 (24.21) Zielinsky 88 Amelin 87 Amelin 87B Amelin 86 10.5 - 200 (27.34 - 88.7) Fredriksson 87 30 (38.47) Tkaczyk 86	π^- ⁴⁶ Ca	0.1947 - 0.4168 (44.95 - 45.15) Ohkubo 85	π^- ¹⁰⁸ Ag	100 (173.9) Biswas 86		
π^- ²⁴ Mg	100 (70.51) Biswas 86	π^- Fe	1.26 - 2.5 (53.27 - 54.47) Kuzichev 89 Antipov 86 Atipov 86B Antipov 85 Antipov 85B Antipov 85C Cobbaert 88B Cobbaert 87B	π^- ¹¹² Sn	5 (109.2) Bayukov 85D Gavrilov 85B		
π^- Al	0.2707 (25.44) Marx 86 1.1 (26.22) Golubeva 90 1.2 - 5 (26.31 - 29.72) Vorobiev 89C Vorobiev 87B 1.26 - 2.5 (26.37 - 27.52) Kuzichev 89 Bayukov 85 3 (27.98) Vorobiev 88E Vorobiev 86 30 (46.26) Beusch 86 Abreu 85 39.1 (50.96) Apokin 86D 40 (51.4) Ananieva 86 Antipov 86 Antipov 86B Antipov 85 Antipov 85B Antipov 85C Zajmidoroga 85 Bellini 84 Cobbaert 88B Cobbaert 87B 530 (165.1) Kartik 90 De 89	π^- ⁵⁸ Ni	5 (58.82) Bayukov 85D Gavrilov 85B	π^- In	5 (111.8) Bayukov 85D		
π^- ²⁷ Al	0.1283 - 0.6242 (25.34 - 25.78) Dropsky 86	π^- Ni	5 (59.48) Bayukov 85D	π^- ¹¹⁸ Sn	0.2306 (110.2) Ullmann 85		
π^- Si	0 (26.3) Gornov 88	π^- Cu	0 (59.34) Gornov 88 Gornov 87B Gornov 86B Marx 86 0.6 - 1 (59.81 - 60.2) Golubeva 89 1.2 - 5 (60.39 - 64) Vorobiev 89C Vorobiev 87B 1.26 2.5 (60.45 - 61.65) Kuzichev 89 1.4 - 5 (60.59 - 64) Bayukov 85C Bayukov 85E Bayukov 85F Burgov 87 Buklej 86 Bayukov 85 Vorobiev 88E Bayukov 85D Beusch 86 Abreu 85 Barwolf 88 Barwolf 85	π^- Sn	5 (115.5) Bayukov 85D 30 (137.3) Beusch 86 Abreu 85 Apokin 86D 225 (248.9) Greenlee 85		

π^- Pb

π^+ Be

<p>π^- Pb</p> <p>39.1 (228.8) 40 (229.6)</p> <p>Barwolff 85 Apokin 86D Gabunia 90 Bannikov 89 Gabunia 89 Boos 88 Ananieva 86 Albini 85 Antipov 85 Vishnyakov 85 Zajmidoroga 85 Bellini 84 Capraro 87 Kartik 90 De 89</p>	<p>$\pi^+ \pi^-$</p> <p>0.1181 - 17.2 (0.3 - 2.2) Clark 85 0.9337 - 14.19 (0.55 - 2) Apokin 89B</p> <p>$\pi^+ p$</p> <p>0.03 - 0.67 (1.081 - 1.478) Brack 89 0.0668 (1.091) Brack 88 0.1208 - 0.2259 (1.116 - 1.182) Friedman 90 0.1305 - 0.2258 (1.122 - 1.182) Friedman 89 0.1356 (1.125) Wiedner 89 Wiedner 87 0.2445 - 0.4168 (1.195 - 1.313) Ottermann 85B 0.303 - 0.7263 (1.235 - 1.513) Abaev 84 0.378 - 0.687 (1.287 - 1.488) Sadler 87 0.4158 (1.313) Meyer 88 0.471 - 0.625 (1.35 - 1.45) Barlow 89 0.471 - 0.687 (1.35 - 1.488) Mokhtari 86 Mokhtari 85 0.547 - 0.625 (1.4 - 1.45) Seftor 89 0.547 - 0.687 (1.4 - 1.488) Wigatman 88 < 1.232 (< 1.796) Arndt 85 1.49 - 2.069 (1.92F - 2.189) Hab. 88 1.69 - 1.88 (2.02 - 2.107) Candlin 88 1.7 (2.025) 1.84 - 2.63 (2.089 - 2.417) 3.94 (2.881) Abramov 88 Arefiev 90 Arefiev 90B Zhokin 89 Arefiev 87 Arefiev 86 Arefiev 86B Abramov 85C Brovkin 89 Drutskoy 89 Drutskoy 88 Drutskoy 87 Drutskoy 87B Mikhajichien 87 Andryakov 89 Baller 88 10.5 (4.539) Bitsadze 86 Bitsadze 85B Ferguson 87 Cl-rk 85 16 (5.561) Jawahery 85 Panagiotou 89 Beusch 86 Abreu 85 Sikis 87 Kazarinov 85 40 - 225 (8.716 - 20.57) Rutherfordord 85 50 (9.733) Asad 85 80 - 140 (12.29 - 16.24) Apsimon 90 Apsimon 89 Armstrong 89C Augustin 88C Armstrong 87 Armstrong 86 Armstrong 86B Armstrong 86D Armstrong 86E Augustin 85E Vassiliadis 85 Dijkstra 86D Fuess 87 Brick 86</p>	<p>$\pi^+ p$</p> <p>< 200 (< 19.4) 200 (19.4) 250 (21.68) 280 (22.94) 280 - 300 (22.94 - 23.75) 300 (23.75) ?</p> <p>Hohler 89 Brick 90 Brick 89 Becker 87 Naudet 86 Ajinenko 90 Aivazyan 89 Ajinenko 89B Ajinenko 89C Ajinenko 89D Ajinenko 89E Buschbeck 89 Adamus 88 Adamus 88B Adamus 88C Adamus 88F Adamus 88G Aivazyan 88 Grassler 88 Adamus 87C Adamus 87D Ajinenko 87 Adamus 86 Adamus 86B Adamus 86C Bonesini 89 Bonesini 89B Bonesini 88 Bonesini 87 280 - 300 (22.94 - 23.75) Lancon 86B Demarzo 87 Demarzo 87B Richard 87 Ferbel 86 Chliapnikov 90</p>	<p>π^+ deuteron</p> <p>1.06 - 1.4 (2.747 - 2.969) Pigot 85 3.9 (4.263) 6 - 11.85 (5.104 - 6.928) Fujisaki 88 10.3 (6.494) Bitsadze 86B 10.5 (6.552) Bitsadze 86 Akimenko 85</p> <p>$\pi^+ {}^3\text{He}$</p> <p>0.2445 - 0.3314 (3.066 - 3.137) Pillai 88</p> <p>$\pi^+ {}^3\text{He}$</p> <p>0.1461 - 0.1731 (2.993 - 3.012) Aniol 85 0.1922 - 0.2605 (3.026 - 3.079) Marx 86 0.1947 - 0.248 (3.028 - 3.069) Angelescu 90 0.2445 - 0.3314 (3.066 - 3.137) Pillai 88 < 0.2875 (< 3.101) Redwine 86 0.4693 - 0.5985 (3.25 - 3.356) Boswell 86</p> <p>$\pi^+ {}^4\text{He}$</p> <p>0.1283 - 0.4168 (3.913 - 4.145) M-r x 86 0.1536 - 0.2605 (3.931 - 4.013) Balestra 86 0.2189 - 0.3851 (3.98 - 4.118) Kinney 86 0.2707 (4.021) Weber 89</p> <p>$\pi^+ \text{He}$</p> <p>0.2875 - 0.353 (4.038 - 4.093) Gram 89 0.4693 - 0.5985 (4.192 - 4.302) Boswell 86</p>
<p>$\pi^- {}^{208}\text{Pb}$</p> <p>0 (193.9) Delaat 85</p> <p>$\pi^- {}^{209}\text{Bi}$</p> <p>0.1426 - 0.1947 (194.9 - 194.9) Hicks 85</p> <p>$\pi^- {}^{238}\text{U}$</p> <p>0.1426 - 0.1947 (221.9 - 221.9) Hicks 85</p>	<p>$\pi^- \text{U}$</p> <p>1.4 - 5 (223.1 - 226.7) Bayukov 85C Bayukov 85L Bayukov 85F Bayukov 85 Catanesi 89 Catanesi 88 Cobbaert 88B Cobbaert 87B Catanesi 86</p>	<p>$\pi^+ n$</p> <p>1.4 - 5 (1.883 - 3.21) 5.98 - 11.85 (3.485 - 4.814) 6 - 11.85 (3.49 - 4.814) 6 - 12 (3.49 - 4.843) 10.3 (4.501) Bitsadze 86B < 200 (< 19.4) Hohler 89</p>	<p>$\pi^+ \text{Li}$</p> <p>0.1426 - 0.1695 (5.787 - 5.80) Mcparland 85 0.1426 - 0.2422 (5.787 - 5.864) Mcparland 85C 0.2537 (5.873) Ransome 90 0.2875 - 0.353 (5.902 - 5.958) Gram 89 0.5 - 1.5 (6.08 - 6.935) Kobayashi 88B 1.35 - 3.75 (6.814 - 8.556) Gachurin 85 1.5 (6.935) Burgov 87</p>
<p>$\pi^- \text{nucleus}$</p> <p>0.3957 - 0.4536 1 - 6 2.9 3.9 - 40 4 4 - 6.2 5 5 - 300 13.3 38 40 43 - 202 50 50 - 200 50 - 340 60 - 300 80 200 225 252 300 340 350 530</p> <p>Gavrin 89 Gavrilov 85 Vorobiev 89 Panagiotou 85 Kechechyan 89 Shahbazyan 88 Amelin 86 Amelin 87B Zielinsky 88 Agababyan 85B Fredriksson 87 Prokoshkin 87C Barwolff 88 Boos 88 Cassata 88 Bellini 84 Landsberg 86 Kumar 89 Bajramov 89 Azimov 85 Tariq 90 Hollynski 86B Albrow 88 Joyner 89 Jain 88B Arenton 86 Rutherfordord 85 Biino 87 Alde 88B Badier 86 Hollynski 86 Juric 86 Babecki 85 Ahmad 90 Ahmad 89 Ahrar 86 Ahmad 85B Aoki 88 Aoki 87 Arnold 87B Kartik 90</p>	<p>3.94 (2.881) 4 (2.9) 4.2 (2.964) 4.23 (2.974) 4.5 (3.058) 9.9 (4.414) 10.5 (4.539) 12 (4.839) 15.7 (5.51) 16 (5.561) 18.5 (5.968) 30 (7.563) 40 (8.716) 40 - 225 (8.716 - 20.57) 50 (9.733) 80 - 140 (12.29 - 16.24) 85 (12.67) 120 (15.04) 147 (16.64)</p>	<p>π^+ deuteron</p> <p>0.143 - 0.256 (2.07 - 2.152) Smith 87C 0.1695 (2.088) Smith 86F 0.1947 - 0.5212 (2.106 - 2.358) Arvieu 84C 0.2069 - 0.2549 (2.115 - 2.151) Smith 86D 0.2069 - 0.3744 (2.115 - 2.244) Redwine 86 0.2165 - 0.2514 (2.122 - 2.149) Shin 86 0.2189 - 0.4105 (2.124 - 2.272) Yokosawa 85C 0.2217 (2.126) Ashery 88 0.2236 - 0.4421 (2.127 - 2.297) Ottermann 85B 0.2353 - 0.2549 (2.136 - 2.151) Smith 86C 0.2353 - 0.3701 (2.136 - 2.241) Ungricht 85 0.2422 (2.142) Blankleider 84 0.25 - 0.65 (2.147 - 2.456) Boschitz 86 0.2875 (2.176) Smith 86E 0.34 (2.217) Mathie 85 0.3957 - 0.5728 (2.261 - 2.398) Strakovsky 86 Borkovsky 84 0.65 - 1.95 (2.456 - 3.297) Chuvilo 86 0.74 (2.522) Yamauchi 85</p>	<p>$\pi^+ \text{Li}$</p> <p>0.8 (7.233) Chrien 88 1.5 (7.829) Buklej 86 3.9 (9.606) Nakai 89 10.5 (13.33) Bitsadze 86</p> <p>$\pi^+ {}^7\text{Li}$</p> <p>0.1023 - 0.141 (6.692 - 6.717) Irom 85 0.2875 - 0.353 (6.834 - 6.891) Gram 89 0.4168 - 0.6753 (6.947 - 7.178) Rokni 88 0.5005 (7.022) Baturin 88 1.35 - 3.75 (7.761 - 9.564) Gachurin 85</p> <p>$\pi^+ \text{Be}$</p> <p>0.2875 - 0.353 (8.71 - 8.767) Gram 89 1.35 - 3.75 (9.658 - 11.55) Gachurin 85 10.5 (15.71) Akimenko 89 Bitsadze 86 120 (45.66) Dijkstra 86C 120 - 200 (45.66 - 58.55) Dijkstra 86</p>

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

$\pi^+ 12C$ 0.2189 - 0.3205 (11.44 - 11.53) Mordechai 85 1.054 (12.2) Milner 85B 1.35 - 3.75 (12.46 - 14.45) Gachurin 85 4 (14.65) Manabe 89	$\pi^+ Al$ 0.8 (25.93) Chrien 88 1.1 (26.22) Golubeva 90 3 (27.94) Vorobiev 89C 3.9 (28.77) Nakai 89 4 (28.86) Tokishuku 90 10.5 (34.05) Bitsadze 86 30 (46.26) Beusch 86 Abreu 85 Ajinenko 90B De 89	$\pi^+ Cu$ 3.9 (62.98) Nakai 89 10.5 (68.9) Akimenko 89 Bitsadze 86 Beusch 86 Abreu 85 30 (84) Huston 86 202.5 (165.8) Zieliński 86 De 89 530 (257.4)	$\pi^+ Pb$ 3 (196) Vorobiev 89C Vorobiev 88E 3 - 7.5 (196 - 200.4) Bayukov 86 4 (197) Tokushuku 90 7.5 (200.4) Bayukov 89C 10.5 (203.2) Akimenko 89 Beusch 86 30 (221) Abreu 85 Akesson 88B 200 (338.3) Huston 86 202.5 (339.7) Zieliński 86 De 89 530 (491.8)
$\pi^+ C$ 0.2875 - 0.353 (11.5 - 11.56) Gram 89 0.34 (11.55) Tacik 86 0.6 (11.79) Golubeva 89 0.8 (11.97) Chrien 88 1 - 6 (12.16 - 16.11) Bayukov 85C Bayukov 85E Golubeva 90 1.4 - 5 (12.52 - 15.4) Bayukov 85F Burgov 87 Buklej 86 2.9 (13.79) Vorobiev 84C Vorobiev 89C Vorobiev 88E 3 - 7.5 (13.87 - 17.12) Bayukov 86 Nakai 89 3.9 (14.58) Bayukov 89C 7.5 (17.12) Bitsadze 86B 10.3 (18.86) Beusch 86 30 (28.22) Abreu 85 200 (67.83) Badier 85C Badier 85E Badier 85F Bardadinotwi 85 Huston 86 202.5 (68.24) De 89 530 (109.5)	$\pi^+ 27Al$ 0.1283 - 0.5212 (25.34 - 25.68) Dropeisky 86 0.4168 - 0.6753 (25.59 - 25.83) Rokni 88 1.35 - 3.75 (26.47 - 28.66) Gachurin 85	$\pi^+ 60Zn$ 1.35 - 3.75 (61.89 - 64.19) Gachurin 85	$\pi^+ 208Pb$ 0.4168 - 0.6753 (194.2 - 194.4) Rokni 83
$\pi^+ 14C$ 0.1271 (13.23) Leitch 85 0.1283 (13.23) Mishra 85 0.2696 (13.34) Holtkamp 85 0.4084 - 0.6497 (13.47 - 13.69) Williams 89B 0.4168 - 0.6753 (13.47 - 13.71) Rokni 88	$\pi^+ 28Si$ 0.2189 - 0.3205 (26.34 - 26.43) Mordechai 85	$\pi^+ 90Zr$ 0.4168 - 0.6753 (84.27 - 84.52) Rokni 88	$\pi^+ 209Bi$ 0.1426 - 0.1947 (194.9 - 194.9) Hicks 85 1.35 - 3.75 (196 - 198.4) Gachurin 85
$\pi^+ 16Ni$ 0.1283 - 0.4063 (14.16 - 14.4) Redwine 86 0.2696 (14.27) Seestrommorr 85	$\pi^+ Si$ 0.1283 - 0.5212 (26.35 - 26.7) Dropeisky 86	$\pi^+ Rh$ 0.2875 - 0.353 (96.18 - 96.24) Gram 89	$\pi^+ 238U$ 0.1426 - 0.1947 (221.9 - 221.9) Hicks 85 1.35 - 3.75 (223.1 - 225.4) Gachurin 85
$\pi^+ 16O$ 0.1421 (15.1) Wharton 85 0.2189 - 0.3851 (15.16 - 15.3) Wood 85 0.3583 (15.28) Redwine 86	$\pi^+ 32S$ 0.2189 - 0.3205 (30.07 - 30.16) Mordechai 85	$\pi^+ Ag$ 200 (224.3) Brick 90 Brick 89	$\pi^+ U$ 1 - 6 (222.7 - 227.7) Bayukov 85C Bayukov 85E 1.4 - 5 (223.1 - 226.7) Bayukov 85F
$\pi^+ 18O$ 0.3583 (17.15) Redwine 86 0.4084 - 0.6497 (17.19 - 17.42) Williams 89B	$\pi^+ 37Cl$ 0.3957 - 0.5108 (34.88 - 34.99) Gavrin 89	$\pi^+ 108Ag$ 100 (173.9) Biswas 86	$\pi^+ nucleus$ 0.077 Azuelos 86 0.2189 - 0.3205 Mordechai 85 0.3957 - 0.5108 Gavrin 89 1 - 6 Gavrilov 85 5 - 300 Fredriksson 87 7.5 Takibaev 90 10.5 Akimenko 89 43 - 202 Landsberg 86 200 Brick 90 252 Biino 87
$\pi^+ Ne$ 10.5 - 200 (27.34 - 88.7) Fredriksson 87 30 (38.47) Tkaczyk 86	$\pi^+ Cl$ 530 (197.1) De 89	$\pi^+ 118Sn$ 0.2306 (110.2) Ullmann 85	$\pi^+ C$ (106.4 - 473.2) Avakyan 89C
$\pi^+ 24Mg$ 0.2189 - 0.3205 (22.61 - 22.7) Mordechai 85 100 (70.51) Biswas 86	$\pi^+ 40Ar$ 0.2875 (37.58) Germond 85C	$\pi^+ Sn$ 30 (137.3) Beusch 86 Abreu 85	$\pi^+ Ne$ 10.5 (27.34) Fredriksson 87
$\pi^+ Mg$ 200 (97.82) Brick 90 Brick 89	$\pi^+ 40Ca$ 0.2189 - 0.3205 (37.52 - 37.61) Mordechai 85 0.2189 - 0.3851 (37.52 - 37.67) Wood 85 0.2306 (37.53) Ullmann 85	$\pi^+ 120Sn$ 0.4168 - 0.6753 (112.2 - 112.5) Rokni 88	$\pi^+ Fe$ (233.9 - 1021) Avakyan 89C
	$\pi^+ Ca$ 0.2875 - 0.353 (37.65 - 37.71) Gram 89	$\pi^+ Xe$ 2.34 - 9 (124.6 - 131) Miller 87C 2.9 (125.2) Vorobiev 84C	$\pi^+ Pb$ (479.9 - 1974) Avakyan 89C
	$\pi^+ 46Sc$ 0.1947 - 0.4168 (42.14 - 42.34) Ohkubo 85	$\pi^+ 181Ta$ 1.35 - 3.75 (170 - 172.3) Gachurin 85	$\pi^+ P$ 150 - 280 (16.8 - 22.94) Rutherford 85
	$\pi^+ Ti$ 3 - 7.5 (47.53 - 51.58) Bayukov 86 7.5 (51.58) Bayukov 89C	$\pi^+ Wt$ 225 (326.2) Grab 87 Louis 86 250 (339.1) Heinrich 89 252 (340.1) Biino 87	$\pi^+ Fe$ (233.9 - 723.1) Avakyan 85D Avakyan 85E
	$\pi^+ 48Ca$ 0.1947 - 0.4168 (44.95 - 45.15) Ohkubo 85	$\pi^+ Au$ 200 (327.2) Brick 90 Brick 89 250 (354.1) Ajinenko 90B	$\pi^+ nucleus$ 2 - 200 Fredriksson 87 300 - 1600 Avakyan 85F
	$\pi^+ 58Ni$ 0.2651 (54.33) Redwine 86	$\pi^+ 197Au$ 0.1426 - 0.1947 (184.5 - 184.6) Hicks 85 100 (266.2) Biswas 86	$\pi^+ K^- e^-$ 250 (0.7065) Amendolia 86B
	$\pi^+ 80Ni$ 0.4168 - 0.6753 (56.33 - 56.58) Rokni 88	$\pi^+ 207Pb$ 1.35 - 3.75 (194.2 - 196.5) Gachurin 85	
	$\pi^+ Cu$ 0.6 - 1 (59.81 - 60.2) Golubeva 89 1 - 6 (60.2 - 64.92) Bayukov 85C Bayukov 85E 1.4 - 5 (60.59 - 64) Bayukov 85F 1.5 (60.68) Burgov 87 Buklej 86 3 (62.13) Vorobiev 89C	$\pi^+ Pb$ 0.2875 - 0.353 (193.3 - 193.4) Gram 89 0.6 (193.6) Golubeva 89 1 - 6 (194 - 198.9) Bayukov 85C Bayukov 85E 1.4 - 5 (194.4 - 197.9) Bayukov 85F 1.5 (194.5) Burgov 87 Buklej 86	

$K^- p$

$K_L Pb$

$K^- p$ 0 (1.432) Hessey 89 Whitehouse 89 0.68 (1.643) Gall 88 Hertzog 88 0.688 - 0.833 (1.647 - 1.715) Koiso 84 3.93 - 176 (2.925 - 18.2) Panagiotou 89 4.2 (3.01) Heringsway 84 5 (3.248) Bensinger 85 8 - 12 (4.021 - 4.864) Armstrong 87C Armstrong 86F 9.9 (4.441) Baller 88 11 (4.668) Aston 89 Aston 89B Aston 88 Aston 88B Aston 88C Aston 88D Aston 88E Aston 88F Aston 88G Aston 88H Aston 88I Aston 88J Augustin 88C Bird 88 Toki 88B Aston 87 Aston 87B Aston 86 Aston 86B Sinervo 86 Aston 85 Aston 85B 12 - 16 (4.864 - 5.582) Armstrong 85 Asad 85 32.1 (7.834) Babintsev 86B Ma 86 Ukhanov 86 Patalakha 85 Bogolyubsky 84D 32.5 (7.882) Landsberg 88 Bityukov 86B Bityukov 85C 40 (8.729) Amaglobeli 89 Apokin 89 Bolonkin 89 Apokin 88B Bolonkin 88 Antipov 87B Bolonkin 86 58 (10.49) Paub 85 80 - 140 (12.3 - 16.24) Apsimon 90 Apsimon 89 110 (14.41) Tannenbaum 89 Banerjee 86 Banerjee 86B Haupt 85 Gourlay 86 Becker 87 (12.67) Chlapinikov 90 (16.64) Hitlin 88 $K^- n$ 32.5 (7.887) Bityukov 87 $K^- nucleon$ 32.5 (7.889) Landsberg 87 $K^- deuteron$ 0.92 - 1.4 (2.771 - 3.055) Pigot 85 40 (12.4) Amaglobeli 89 Apokin 89 Apokin 88C $K^- ^4He$ < 0.3 (< 4.293) Dalitz J	$K^- Li$ 40 (23.65) Boos 88 $K^- ^9Be$? Pniewski 85 $K^- Be$ 38 (26.62) Efendiev 89 40 (27.25) Antipov 89C 100 (41.83) Dijkstra 86C Dijkstra 86D 100 - 175 (41.83 - 54.85) Dijkstra 86 $K^- ^{10}Bor$? Pniewski 85 $K^- ^{12}C$ 0 (11.67) Gal 86B Yamazaki 85 0.45 (11.84) Bertini 84 0.8 (12.09) Grace 85 0.9195 (12.19) Yamazaki 86 450 (100.9) Dabrowski 86 $K^- C$ 1.6 - 1.8 (12.76 - 12.93) Afanasyev 88 40 (31.95) Boos 88 $K^- ^{16}O$ 0.45 (15.56) Bertini 84 $K^- Al$ 1.6 - 1.8 (26.76 - 26.94) Afanasyev 88 38 (50.42) Efendiev 89 $K^- Si$ 200 (105.6) Barlag 88 Barlag 87 $K^- S$ 40 (57.28) Boos 88 $K^- Ti$ 1.6 - 1.8 (46.27 - 46.45) Afanasyev 88 $K^- Cu$ 38 (89.46) Efendiev 89 40 (90.78) Antipov 89C Boos 88 230 (175.3) Barlag 90D $K^- Ag$ 38 (133.2) Efendiev 89 40 (134.7) Antipov 89C $K^- Cd$ 1.6 - 1.8 (106.4 - 106.6) Afanasyev 88 $K^- Wt$ 0 (171.8) Gall 88 6 (177.2) Bensinger 88 $K^- Pb$ 0 (193.5) Gall 88 38 (227.9) Efendiev 89 40 (229.6) Antipov 89C Boos 88 $K^- nucleus$ 1.5 May 89B 5 - 300 Fredriksson 87 13.3 Prokoshkin 87C 38 Efendiev 89 40 Boos 88 $K^+ p$ < 3 (< 2.613) Arndt 84	$K^+ p$ 8.2 - 70 (4.067 - 11.51) Panagiotou 89 Baller 88 9.9 (4.441) Frame 86 13 (5.053) Ajinenko 87B 32.1 (7.834) Garutchava 87 Garutchava 87B Gerdyukov 87 Ajinenko 86B Ajinenko 86C Gerdyukov 86 Gerdyukov 86B Tomaradze 86 Ajinenko 85 Ajinenko 85 Knyazev 85 Ajinenko 84 Ajinenko 84B Ajinenko 84C Ajinenko 83B Asad 85 Dewolf 86 Ronjin 86 Kubic 85 Crisaeniko 84 80 - 140 (12.3 - 16.24) Apsimon 90 Apsimon 89 Dijkstra 86D 120 (15.04) Fuess 87 147 (16.64) Brick 86 Brick 90 200 (19.4) Brick 89 Becker 87 250 (21.69) Ajinenko 90 Agababyan 89 Aivazyan 89 Ajinenko 89B Ajinenko 89C Ajinenko 89D Ajinenko 89E Buschbeck 89 Adamus 88 Adamus 88F Adamus 88G Aivazyan 88 Grassler 88 Adamus 87 Adamus 87C Adamus 87D Adamus 87E Ajinenko 87 Adamus 86B Adamus 86C Chlapinikov 90 $K^+ n$ 5.98 - 11.85 (3.522 - 4.839) Delesen 89 $K^+ deuteron$ 10.5 (6.572) Akimenko 85 $K^+ Be$ 11.2 (16.09) Akimenko 90B Akimenko 90C 120 (45.67) Dijkstra 86C 120 - 200 (45.67 - 58.56) Dijkstra 86 $K^+ C$ 1.6 - 1.8 (12.76 - 12.93) Afanasyev 88 200 (67.83) Badier 85E $K^+ Mg$ 200 (97.82) Brick 90 Brick 89 $K^+ Al$ 1.6 - 1.8 (26.76 - 26.94) Afanasyev 88 Ajinenko 90B Ajinenko 89	$K^+ Ti$ 1.6 - 1.8 (46.27 - 46.45) Afanasyev 88 $K^+ Cu$ 11.2 (69.51) Akimenko 90B Akimenko 90C $K^+ Ag$ 200 (224.3) Brick 90 Brick 89 $K^+ Cd$ 1.6 - 1.8 (106.4 - 106.6) Afanasyev 88 $K^+ Xe$ 0.56 - 0.81 (123.1 - 123.3) Barmin 89B 0.85 (123.3) Barmin 86B Barmin 86C Barmin 85 $K^+ Au$ 200 (327.2) Brick 90 Brick 89 250 (354.1) Ajinenko 90B Ajinenko 89 $K^+ Pb$ 11.2 (203.9) Akimenko 90B Akimenko 90C 200 (338.3) Akesson 88B $K^+ nucleus$ 0.3811 Smirnov 85 0.6 Berdnikov 86 Berdnikov 85 5 - 300 Fredriksson 87 10.5 Bitsadze 85 $K_L \gamma$ 60 - 200 (0.4977) Carlsmith 87 $K_L deuteron$ 10 - 50 (6.428 - 13.83) Silvestrov 87 Silvestrov 86 $K_L C$ 1.6 - 7.4 (12.76 - 17.07) Berezin 86 75 - 200 (42.47 - 67.83) Lamm 87 80 - 280 (43.77 - 79.94) Hartouni 85 $K_L Al$ 1.6 - 7.4 (26.76 - 31.7) Berezin 86 $K_L Cu$ 1.6 - 7.4 (60.85 - 66.2) Balats 87 Berezin 86 60 - 200 (103 - 164.9) Carlsmith 87 100 - 200 (123.9 - 164.9) Carlsmith 86 $K_L Sn$ 1.6 - 7.4 (112.2 - 117.7) Berezin 86 $K_L Pb$ 1.6 - 7.4 (194.7 - 200.3) Berezin 86 60 - 200 (245.8 - 338.3) Carlsmith 87 100 - 200 (275.4 - 338.3) Carlsmith 86
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Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{in} (in parentheses) is given. See the legend on page 123.

ρ^0 nucleon

ρ^0 nucleon	$\bar{P} P$	$\bar{P} P$	$\bar{P} P$
< 3.9 (< 2.992)			
Nakai 89	Barnes 85	Babintsev 86B	Arnison 86D
< 5 (< 3.315) Abidinov 86	Barnes 87B	Bogolyubsky 86	Bernard 86B
	1.653 - 1.731 (2.308 - 2.336)	Bogolyubsky 86B	Aliner 85C
	1.695 (2.323) Barnes 90	Bogolyubsky 86C	Arnison 85C
	1.91 - 1.99 (2.399 - 2.427)	Bogolyubsky 86D	Arnison 85E
	Fickinger 86B	Bogolyubsky 86E	Bernard 85
	1.95 - 4 (2.413 - 3.077)	Bogolyubsky 86G	Bozzo 85
	Tosello 89	Bogolyubsky 86H	Albajar 90C
	< 2 (< 2.43) Hamann 90	Bravina 86	Franzini 89
	3.15 - 7.9 (2.816 - 4.085)	Bumazhnov 86	Itep 89
	Bachman 86	Kozlovsky 86	Stubenrauch 89
	3.5 - 6.5 (2.926 - 3.753)	Babintsev 85	Ansari 88
	Baglin 87C	Bogolyubsky 84B	Dowell 88
	3.5 - 7.5 (2.926 - 3.993)	Apokin 88B	Plothowbesch 88
	Baglin 87B	Ukhanov 86B	Ruhlmann 88
	3.621 - 5.755 (2.963 - 3.564)	Gourlay 86	Salvini 88
	Augustin 88C	Allday 88	Spicas 88
	Baglin 87	Derado 88	Tao 88
	Toki 87	Becker 87	Albajar 87
	3.637 - 3.698 (2.968 - 2.987)	Adamus 86B	Albajar 87B
	Baglin 85	Camilleri 87	Ansari 87C
	3.65 - 5.65 (2.972 - 3.537)	Bredon 89	Ansari 87D
	Baglin 89B	Bernasconi 88	Ansari 87F
	Baglin 89C	Antille 87	Cenci 87
	4.6 - 12 (3.251 - 4.934)	Bernasconi 87	Summers 87
	Markytan 89	Valenti 85	Albajar 86
	5.51 - 29.02 (3.5 - 7.5)	Amos 85	Albajar 86B
	Baglin 86	Carboni 85	Appel 86
	5.586 - 5.624 (3.52 - 3.53)	Chauvat 85	Appel 86B
	Baglin 86B	Panagiotou 89	Arnison 86
	5.7 - 12 (3.55 - 4.934)	Breakstone 86F	Arnison 85B
	Baldin 86B	Breakstone 85C	Arnison 85D
	5.7 - 22.4 (3.55 - 6.621)	Angelis 85	Levi 85
	Baldin 86	Akesson 86F	Jenni 89
	Batyunya 85B	Akesson 85B	Akesson 90B
	5.7 - 205 (3.55 - 19.66)	Akesson 85G	Akesson 90C
	Baldin 87	Breakstone 85	Albajar 90
	Batyunya 86B	Erhan 85	Albajar 90D
	6.6 (3.778) Reeves 86	Kvatadze 88	Albajar 90E
	8 - 12 (4.108 - 4.934)	Lancon 86B	Aiitti 90
	Armstrong 87C	Tannenbaum 89	Aiitti 90B
	Armstrong 86F	Breakstone 86B	Aiitti 90C
	Baller 88	Albajar 89	Aiitti 90D
	10.1 - 100 (4.56 - 13.76)	Ansorge 89	Fransson 90
	Bogolyubsky 86F	Ansorge 89B	Parse 90
	12 (4.934) Chakrabarti 85	Ansorge 89C	Albajar 89C
	12 - 22.4 (4.934 - 6.621)	Pelzer 89	Aiitti 89
	Batyunya 87J	Ansorge 88	Botner 89
	(5 - 62) Block 84	Asman 88	Buschbeck 89
	22.4 (6.621) Batyunya 90	Eckart 88	Felcini 89
	Boos 89	Ansorge 87	Meier 89
	Kanazirski 89	Buraw 87	Albajar 88C
	Zlatanov 89	Aliner 86	Albajar 88D
	Batyunya 87E	Aliner 86B	Albajar 88E
	Batyunya 87F	Ansorge 86	Albajar 88F
	Kanazirski 87	Holl 86	Albajar 88G
	Batyunya 86	Schmickler 86	Albajar 88H
	Batyunya 86C	Aliner 85D	Ansari 88B
	Batyunya 86D	Cerradini 85	Bonino 88
	Boos 86	Geichgimbel 85	Gan 88
	Baldin 85	Albajar 90B	Mandelli 88
	Batyunya 85	Albajar 88	Albajar 87D
	Batyunya 85C	Paoletti 89	Ansari 87
	Batyunya 89	Albajar 89B	Ansari 87B
	30 - 50 (7.621 - 9.778)	Ferbel 86	Lyons 87
	Asad 85	Rubbia 86	Repellin 87
	32.1 (7.875) Bogolyubsky 89B	Aliner 85	Richard 87
	Bogolyubsky 89D	Aliner 85B	Arnison 86B
	Bravina 89	Arnison 85	Bernard 86
	Babintsev 88	Banner 85	Appel 85
	Bogolyubsky 88	Banner 85B	Appel 85B
	Bogolyubsky 88B	Hanni 85	Appel 85C
	Bogolyubsky 88C	Savoynavarro 85	Binkley 90
	Bogolyubsky 88E	Aliner 84B	Liss 90
	Bogolyubsky 88G	Bagnaia 84E	Abe 89L
	Chekulaev 88B	Albajar 88B	Abe 89M
	Smirnova 88	Albajar 87C	Barbarogalti 89
	Bogolyubsky 87	Albajar 87E	Abe 88C
	Bogolyubsky 87B	Albajar 86C	Aliner 86C
	Bogolyubsky 87C	Arnison 86C	Ward 86B
	Bogolyubsky 87D	Reya 85B	Abe 90B
	Bogolyubsky 87E	Vuillemin 85	Alexopoulos 90
	Babintsev 86	Stubenrauch 86	Barbarogalti 90
		Bernard 87	Harris 90
			Hessing 90

$\bar{p} p$	Watts 90	$\bar{p} \text{}^4\text{He}$	0.6 (4.802) Balestra 87	$\bar{p} \text{}^{20}\text{Ne}$	0.608 (19.74) Guinaldo 89B	$\bar{p} \text{Mo}$	0 (90.31) Guinaldo 89
	Abe 89		0.6077 (4.806) Batusov 89C		$\bar{p} \text{Ne}$		0.193 - 0.608 (19.74 - 19.9) Sedlak 88
	Abe 89B	Batusov 88	$\bar{p} \text{He}$	0.201 - 0.609 (19.75 - 19.9) Balestra 86B	$\bar{p} \text{}^{108}\text{Ag}$	120 (185) Bailey 85B	
	Abe 89C	Batusov 88B	0 (4.667) Tsukerman 85	0.607 (19.9) Tosello 89	$\bar{p} \text{}^{112}\text{Cd}$	100 (173.9) Biswas 86	
	Abe 89H	0.1928 - 0.3062 (4.682 - 4.705) Balestra 85	0.1928 - 0.6077 (4.682 - 4.808) Batusov 85C	0.6084 (19.9) Guinaldo 89	$\bar{p} \text{Cd}$	1.76 (106.3) Kuzichev 88	
	Abe 89N	0.6462 - 1.23 (4.825 - 5.13) Piragino 86B	0.6084 (4.808) Balestra 84	0.6462 - 1.23 (19.92 - 20.3) Piragino 86B	$\bar{p} \text{In}$	1.26 - 2.5 (106.3 - 107.3) Kuzichev 89	
	Abe 89O	$\bar{p} \text{}^6\text{Li}$	0.6 (6.676) Garreta 85	$\bar{p} \text{}^{23}\text{Na}$	0.2 - 0.3 (22.38 - 22.41) Poth 85	$\bar{p} \text{}^{115}\text{In}$	0.18 (108.1) Sedlak 88
	Abe 89Q	$\bar{p} \text{}^7\text{Li}$	40 (23.66) Boos 88	$\bar{p} \text{}^{24}\text{Mg}$	100 (70.51) Biswas 86	$\bar{p} \text{Xe}$	1.05 (123.7) Guinaldo 89
	Abe 89R	40 (23.66) Boos 87	$\bar{p} \text{}^8\text{Li}$	$\bar{p} \text{Mg}$	100 (71) Toothacker 87	200 (252.8) Derado 88	
	Abe 89S	0.18 (7.473) Sedlak 88	$\bar{p} \text{}^9\text{Li}$	$\bar{p} \text{Al}$	0.5141 - 0.6331 (26.2 - 26.26) Ashford 85	$\bar{p} \text{}^{136}\text{Ba}$	0.2 - 0.3 (129.5 - 129.5) Poth 85
Abe 89T	0.18 (9.337) Sedlak 88	$\bar{p} \text{}^{10}\text{Li}$	1.252 (26.67) Piragino 86B	1.26 - 2.5 (26.67 - 27.69) Kuzichev 89	$\bar{p} \text{Ta}$	4 (172.6) Tosello 89	
Banerjee 89	1.76 (10.23) Kuzichev 88	$\bar{p} \text{Be}$	$\bar{p} \text{}^{27}\text{Al}$	0.2 - 0.6 (26.11 - 26.26) Sedlak 88	$\bar{p} \text{Te}$	6.066 (174.6) Guinaldo 89	
Blair 89	1.26 - 2.5 (9.886 - 10.78) Kuzichev 89	$\bar{p} \text{B}$	$\bar{p} \text{S}$	40 (57.29) Boos 88	$\bar{p} \text{Wt}$	12.2 (180.4) Andreev 87	
Geer 89	40 (27.26) Antipov 87	$\bar{p} \text{C}$	$\bar{p} \text{Ar}$	125 (46.58) Katsanevas 87	$\bar{p} \text{Au}$	120 (265.4) Bailey 85B	
Hubbard 89B	100 (41.84) Dijkstra 86	0.046 (12.12) Sedlak 88	$\bar{p} \text{Ca}$	200 (127.6) Derado 88	$\bar{p} \text{}^{197}\text{Au}$	125 (268.6) Anassontzis 87	
Kamon 89	Dijkstra 86C	0.18 (12.13) Garreta 84	$\bar{p} \text{}^{40}\text{Ca}$	0.2 - 0.6 (38.22 - 38.37) Sedlak 88	$\bar{p} \text{Pb}$	0.18 (185.3) Sedlak 88	
Sinervo 89	Dijkstra 86D	0.3 - 1.247 (12.16 - 12.68) Piragino 86B	0.3007 - 0.6084 (38.24 - 38.37) Lichtenstadt 85	0.3007 - 0.6084 (38.24 - 38.37) Lichtenstadt 85	100 (266.2) Biswas 86		
Skarha 89	Bailey 85B	0.3007 - 0.6084 (12.16 - 12.28) Lichtenstadt 85	0.6082 - 0.6112 (38.37 - 38.37) Piragino 86B	$\bar{p} \text{}^{44}\text{Ca}$	0.5141 - 0.6331 (194.1 - 194.1) Ashford 85		
Smith 89	Katsanevas 87	0.6 (12.28) Guinaldo 89B	$\bar{p} \text{}^{46}\text{Ca}$	0.2 - 0.3 (41.94 - 41.97) Poth 85	1.26 - 2.5 (194.6 - 195.7) Kuzichev 89		
Tonelli 89	120 (45.67) Sedlak 88	0.608 (12.28) Mcgaughey 86	$\bar{p} \text{}^{54}\text{Fe}$	$\bar{p} \text{}^{56}\text{Fe}$	40 (229.6) Boos 88		
Wagner 89	125 (46.58) Katsanevas 87	$\bar{p} \text{C}$	0.18 (51.26) Sedlak 88	$\bar{p} \text{Fe}$	Boos 87		
Albrow 88	0.56 - 3.608 (12.27 - 12.29) Birsas 85	0.59 (12.28) Nakamura 85B	$\bar{p} \text{Cu}$	1.26 - 2.5 (53.58 - 54.64) Kuzichev 89	$\bar{p} \text{}^{208}\text{Pb}$	0 (194.7) Kreissl 87	
Alexopoulos 88B	0.59 (12.28) Nakamura 85B	1.26 - 2.5 (12.7 - 13.63) Kuzichev 89	$\bar{p} \text{}^{63}\text{Cu}$	$\bar{p} \text{}^{65}\text{Cu}$	0.2 - 0.3 (194.7 - 194.7) Poth 85		
Turkot 88	1.26 - 2.5 (12.7 - 13.63) Kuzichev 89	40 (31.96) Boos 88	0.18 (59.64) Garreta 84	0.2 - 0.6 (59.64 - 59.79) Sedlak 88	$\bar{p} \text{Bi}$	0.2 (195.6) Berrada 85	
Amos 90	Boos 87	$\bar{p} \text{}^{12}\text{C}$	$\bar{p} \text{}^{64}\text{Cu}$	0.5141 - 0.6331 (60.26 - 60.33) Ashford 85	$\bar{p} \text{}^{209}\text{Bi}$	0.1 (195.6) Campagnolle 89	
Amos 90B	$\bar{p} \text{}^{13}\text{C}$	0.046 (12.12) Sedlak 88	1.252 (60.75) Piragino 86B	1.26 - 2.5 (60.75 - 61.82) Kuzichev 89	0.18 (195.6) Boquet 87		
Gladney 90	$\bar{p} \text{}^{14}\text{C}$	0.18 (12.13) Garreta 84	40 (90.79) Boos 88	0.1 (194.7) Sedlak 88	0.1 (222.6) Campagnolle 89		
Abe 89D	$\bar{p} \text{}^{16}\text{O}$	0.3007 - 0.6084 (12.16 - 12.28) Lichtenstadt 85	120 (133.1) Bailey 85B	0.2 - 0.3 (194.7 - 194.7) Poth 85	0.1 - 0.2 (222.6 - 222.7) Boquet 86		
Amos 89	$\bar{p} \text{}^{18}\text{O}$	0.6 (12.28) Guinaldo 89B	125 (135.3) Katsanevas 87	$\bar{p} \text{}^{238}\text{U}$	0.608 (222.8) Mcgaughey 86		
Freeman 89	$\bar{p} \text{}^{19}\text{F}$	0.608 (12.28) Mcgaughey 86	$\bar{p} \text{}^{70}\text{Ge}$	$\bar{p} \text{U}$	0 (222.7) Guinaldo 89B		
Amos 88	$\bar{p} \text{}^{20}\text{Ne}$	0.608 (12.28) Mcgaughey 86	0.2 - 0.3 (66.16 - 66.19) Poth 85	0.2 (222.7) Berrada 85	0.607 (222.8) Guinaldo 89		
Tonelli 88	$\bar{p} \text{}^{21}\text{Ne}$	0.607 (19.74) Balestra 89	$\bar{p} \text{Yt}$	120 (320) Bailey 85B	120 (320) Bailey 85B		
Price 87	$\bar{p} \text{}^{22}\text{Ne}$	0.607 (19.74) Balestra 89					
Bertini 88B							
Rosner 85E							
$\bar{p} n$							
0 (1.878) Daftari 87							
0.45 - 0.97 (1.928 - 2.073) Sedlak 88							
< 0.65 (< 1.977) Bridges 86C							
8.9 (4.31) Shoemaker 88							
$\bar{p} \text{neutron}$							
1 - 3 (2.084 - 2.77) Sapozhnikov 86							
$\bar{p} \text{deuteron}$							
0 (2.814) Angelopoulos 88B							
Bridges 86D							
Bridges 86D							
Gorringe 85							
0.45 - 0.921 (2.881 - 3.055) Parkin 86							
0.5708 (2.919) Guinaldo 89							
< 0.65 (< 2.946) Liu 88							
Bridges 86							
Bridges 86C							
1.6 - 2 (3.37 - 3.562) Guinaldo 89B							
< 2.9 (< 3.979) Tosello 89							
8.9 (6.162) Shoemaker 88							
40 (12.43) Apokin 88C							
Sedlak 88							
$\bar{p} \text{}^3\text{He}$							
0 (3.733) Balestra 87B							
Batusov 87C							
0.1928 (3.747) Balestra 88							
$\bar{p} \text{}^4\text{He}$							
0 (4.664) Balestra 87B							
Batusov 87C							
0.04 - 0.05 (4.665 - 4.665) Balestra 89B							
0.2 - 0.6 (4.681 - 4.802) Sedlak 88							
0.201 - 0.609 (4.681 - 4.806) Balestra 86B							

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

\bar{p} nucleus

\bar{p} nucleus	PP	PP	PP	PP
0 - 0.5	Balestra 86B	Pauletta 87	24 (6.843)	Batyuniya 90
0.18	Garreta 84	Tanaka 87		Batyuniya 87J
0.3 - 0.5	Guaraldo 89	1.331 - 1.639 (2.195 - 2.303)	28 (7.11)	Cameron 85B
< 0.6	Balestra 85B	Vovchenko 86B		Raymond 85
< 2.142	Piragino 86B	1.366 - 1.804 (2.207 - 2.361)	32.1 (7.875)	Bravina 89
< 4	Tosello 89	Bystricky 85B		Bogolyubsky 88F
4 - 400	Panagiotou 89	1.373 - 1.696 (2.21 - 2.323)		Bogolyubsky 87E
5 - 300	Shivpuri 86	Bystricky 85	50 (9.778)	Asad 85
13.3	Fredriksson 87	1.373 - 3.099 (2.21 - 2.8)	(11.29 - 61.28)	Prokoshkin 87C
40	Prokoshkin 87C	1.45 (2.236)	69 (11.46)	Boos 88C
	Boos 87	1.463 (2.241)	70 (11.54)	Abramov 86
	Boos 87	Barlett 85		Abramov 84
	Akchurin 89	1.463 - 1.662 (2.241 - 2.311)		Abramov 84C
		Vovchenko 89B	85 (12.7)	Armstrong 89C
0.045 (1.877)	Kistryn 87	Borisov 86		Augustin 88C
0.1228 - 1.505 (1.881 - 2.256)	Vanoers 85	1.5 - 300 (2.254 - 23.76)		Armstrong 87
	Vanoers 85	Pauagiotou 89		Armstrong 86
0.1374 - 1.464 (1.882 - 2.241)	Bystricky 86D	1.504 - 1.69 (2.255 - 2.321)		Armstrong 86B
	Bystricky 86D	Lac 88		Armstrong 86D
0.2 - 1 (1.887 - 2.082)	Yokosawa 85	1.504 - 2.991 (2.255 - 2.764)		Armstrong 86E
	Yokosawa 85	Lac 89C		Vassiliadis 85
0.2461 (1.892)	Vovchenko 86	1.504 - 3.511 (2.255 - 2.929)		Dijkstra 86D
	Vovchenko 85	Lac 89D	120 (15.06)	Dijkstra 86D
0.304 - 2.48 (1.9 - 2.595)	Madigan 85	1.511 - 3.515 (2.258 - 2.931)	147 (16.66)	Fuess 87
	Madigan 85	Lac 89		Brick 86
< 0.3104 (< 1.901)	Donoghue 84D	1.522 - 1.569 (2.262 - 2.278)	176 (18.22)	Gourlay 86
	Donoghue 84D	Vovchenko 89	185 (18.68)	Alchurin 89
0.4 - 0.579 (1.917 - 1.957)	Onel 89	1.55 - 3.2 (2.272 - 2.832)	(19 - 63)	Bonne 88B
	Onel 89	Fontaine 89	200 (19.42)	Rutherfordford 85
0.447 - 0.597 (1.926 - 1.962)	Hausammann 89	1.557 - 3.515 (2.274 - 2.931)		Klar 84
	Hausammann 89	Lehar 88		Brick 90
0.5 - 0.8 (1.938 - 2.019)	Bystricky 85D	Perrot 88		Brick 89
	Bystricky 85D	1.639 (2.303)		Abe 88
0.6 - 0.9 (1.962 - 2.05)	Andreev 88B	Bazhanov 88		Alday 88
	Andreev 88B	Bazhanov 88B		Derado 88
0.6126 (1.966)	Davis 85	1.696 (2.323)		Becker 87
0.6444 - 0.7771 (1.974 - 2.012)	Fearing 86	Baturin 87		Dengler 86C
	Fearing 86	1.921 - 3.099 (2.403 - 2.8)		Naudet 86
0.65 - 0.8 (1.976 - 2.019)	Hollas 85	Bertini 88	200 - 400 (19.42 - 27.43)	Abduzhamilov 88
	Hollas 85	Bertini 85		Boos 88B
0.655 - 1.017 (1.977 - 2.087)	Garcon 87B	2 - 11.75 (2.43 - 4.887)	205 (19.66)	Arenton 85B
	Garcon 87B	Auer 88		Baldin 88B
0.7 - 1.3 (1.989 - 2.184)	Lehar 86	2 - 400 (2.43 - 27.43)		Baldin 86
	Lehar 86	Boos 86		Baldin 86B
0.7771 (2.012)	Kitching 86	2.75 - 3.48 (2.686 - 2.92)		Baldin 85B
0.7942 - 1.475 (2.017 - 2.245)	Hiroshige 84C	Auer 86B	250 (21.7)	Avizyan 89
	Hiroshige 84C	2.75 - 5 (2.686 - 3.363)		Ajinenko 89D
0.83 - 1.1 (2.028 - 2.115)	Bystricky 85C	3 - 12 (2.768 - 4.934)		Adamus 88B
	Bystricky 85C	Wicklund 85		Adamus 88C
0.88 - 2.7 (2.043 - 2.669)	Lehar 87B	3.099 (2.8)		Avizyan 88
	Lehar 87B	Frascaria 89		Grassler 88
0.926 - 1.696 (2.058 - 2.323)	Shklyarevsky 86	3.88 (3.042)		Adamus 87C
	Shklyarevsky 86	< 4 (< 3.077)		Ajinenko 87D
0.9303 - 1.463 (2.059 - 2.241)	Blankleider 84	4.2 (3.136)		Adamus 87D
	Blankleider 84	Bekmirzaev 87B		Adamus 86
0.9543 - 1.023 (2.067 - 2.089)	Falk 83	4.2 - 10 (3.136 - 4.54)	280 (22.96)	Adamus 86C
	Falk 83	Bekmirzaev 89		Bonesini 89
0.9821 - 1.103 (2.076 - 2.116)	Waltham 83	5.7 - 205 (3.55 - 19.66)		Bonesini 89B
	Waltham 83	Baldin 87	281 - 1078 (23 - 45)	Bonesini 88B
0.9959 - 3.204 (2.08 - 2.833)	Perrot 86	6 (3.627)		Ward 86B
	Perrot 86	Matsuda 86	(23 - 62.5)	Camilleri 87
1 - 3 (2.082 - 2.768)	Shintzu 89	Auer 85	(23 - 63)	Fischer 88
	Shintzu 89	6 - 10 (3.627 - 4.54)	(23.5 - 62.4)	Tammenbaum 89
1 - 13 (2.082 - 5.12)	Soffer 85	6 - 11.75 (3.627 - 4.887)	(23.5 - 62.5)	Amos 85
	Soffer 85	7.8 (4.062)	300 (23.76)	Armstrong 90
1.01 - 1.168 (2.085 - 2.138)	Aprile 86	9.9 - 100 (4.510 - 13.76)		Alimov 89B
	Aprile 86	Bogolyubsky 86F		Armstrong 89
1.08 - 1.459 (2.108 - 2.239)	Shynit 88	10 (4.54)		Armstrong 89B
	Shynit 88	Bekmirzaev 87		Armstrong 89D
1.09 - 1.463 (2.112 - 2.241)	Glass 85B	11.75 (4.887)		Armstrong 89E
	Glass 85B	Auer 86		Armstrong 89F
1.09 - 1.921 (2.112 - 2.403)	Garcon 86	(5 - 62)		Armstrong 88
	Garcon 86	13 - 22 (5.12 - 6.564)		Chan 88
< 1.1 (< 2.115)	Arndt 87	Court 86		Toki 88B
	Arndt 87	13.3 - 18.5 (5.175 - 6.043)		Demarzo 87
1.18 - 1.98 (2.142 - 2.423)	Wicklund 87	Saroff 90		Demarzo 87B
	Wicklund 87	Khiri 89		Richard 87
1.278 - 1.463 (2.176 - 2.241)	Riley 87	Bonner 87		Artykov 86
	Riley 87	(5.474 - 96.87)		Ferbel 86
1.279 - 1.687 (2.177 - 2.32)	Dobrovolsky 88	Sedlak 88		Azimov 85E
	Dobrovolsky 88	Crabb 88	313.7 (24.3)	Azimov 85F
1.282 - 1.463 (2.177 - 2.241)	Gazzaly 87	22.4 (6.621)		Bredon 89
	Gazzaly 87	Batyuniya 89		Antile 87
				360 (26.03)
				Asai 89C
				Aziz 88
				Baily 88B
				Baily 88C
				Baily 88E
				Baily 87B
				Baily 87F
				Baily 86B
				Baily 86D
				Aguliarbenit 85F
				Aziz 85C
				Aziz 85C
				Asai 84
				Ahn 87
				Ahn 86
				400 (27.43)
				Bhattacharjee 90
				Klein 89C
				Aguliarbenit 88
				Aguliarbenit 88B
				Aguliarbenit 88C
				Miettinen 88
				Aguliarbenit 87
				Aguliarbenit 87B
				Aguliarbenit 87C
				Aguliarbenit 87E
				Aguliarbenit 87F
				Aguliarbenit 87H
				Nelson 87
				Brown 86
				Arenton 85
				Torres 85
				400 - 800 (27.43 - 38.77)
				Jaffe 89
				405 (27.6)
				Okusawa 88
				491.5 (30.4)
				Bell 85B
				(30.4 - 62.2)
				Bell 85C
				(30.6 - 62.7)
				Carboni 85
				504.6 (30.8)
				Chauvat 85
				511.2 (31)
				Angelis 87
				Angelis 86
				Breakstone 85D
				Breakstone 88B
				Benayoun 87
				Smith 87
				Breakstone 86D
				Breakstone 86F
				Breakstone 86C
				Breakstone 85C
				527.8 (31.5)
				Akesson 89
				527.8 - 1031 (31.5 - 44)
				800 (38.77)
				Akesson 85F
				(44 - 63)
				Antreasyan 86B
				1440 (52)
				Hofmann 87B
				1479 (52.7)
				Angelis 85
				1496 (53)
				Akesson 86F
				Lancon 86B
				Akesson 85C
				Breakstone 85
				Erhan 85
				(53 - 63)
				Kvatadze 88
				(62)
				Breakstone 90
				Breakstone 89
				Breakstone 89B
				Geist 89
				Breakstone 88
				Breakstone 88C
				Fabbi 88
				Breakstone 87
				Breakstone 86
				Breakstone 86B
				Breakstone 86C
				Breakstone 86E
				Smith 86B
				Breakstone 85B
				Breakstone 85E
				Smith 85B
				Anassontzis 90
				Angelis 90

<p>p p</p> <p>Akesson 88D Akesson 87 Akesson 87B Akesson 87C Akesson 87E Chauvat 87 Akesson 86 Akesson 86B Akesson 86C Akesson 86D Akesson 86E Akesson 85 Akesson 85B Akesson 85C Akesson 85D Akesson 85E Smith 85D (433.2 - 16777) Linsley 84 Chliapnikov 90</p>	<p>p deuteron</p> <p>1.099 - 1.101 (3.134 - 3.134) Punjabi 88 1.14 - 1.669 (3.152 - 3.403) Andreev 84 1.337 - 1.686 (3.244 - 3.411) Dobrovolsky 88 Velichko 88 1.438 - 1.669 (3.292 - 3.403) Andreev 88 Andreev 87C Bartlet 85 1.463 (3.304) 1.463 - 1.696 (3.304 - 3.416) Andreev 87B 1.5 - 1.7 (3.322 - 3.418) Zielinsky 88 1.604 - 3.722 (3.372 - 4.335) Berthlet 85 1.61 (3.375) Yokosawa 85 1.696 (3.416) Aleshin 90 Aleshin 87B Aleshin 87E Baturin 87 Belostotsky 84 Ohmori 88 Γ'gae 87 Nakai 89 4.2 (4.532) Bartke 85 19.2 (8.747) Boos 86B 300 (33.61) Crittenden 86 400 (38.79) Jaffe 89 Brown 86 800 (54.82) Mishra 90</p>	<p>p ⁶Li</p> <p>Gavrilov 85B</p> <p>p ⁷Li</p> <p>0.0287 - 0.044 (7.459 - 7.459) Savage 88C 1.35 - 3.75 (8.052 - 9.685) Gachurin 85 1.696 (8.286) Baturin 87 2 (8.497) Dukhovskoy 87 7.5 (11.91) Bayukov 85D Gavrilov 85B</p>	<p>p Be</p> <p>17.98 - 63.99 (19.33 - 33.85) Belyaev 89C Bonner 89 22 (21) 25 - 65 (22.17 - 34.1) Belyaev 88D 28.5 (23.45) Dukes 87 Sullivan 87 70 (35.31) Abramov 86 Abramov 84D 100 - 200 (41.84 - 58.56) 120 (45.67) Dijkstra 86 200 - 250 (58.56 - 65.34) Bailey 85B Bauer 85 300 (71.47) Rutherford 85 Crittenden 86 350 - 400 (77.12 - 82.39) Lamm 87 400 (82.39) Lundberg 89 Bernstein 88 Duffy 88 Luk 88 Miettinen 88 Wilkinson 87 Beretvas 86 Brown 86 Duffy 85 Hsiung 85 Romanovski 85 Barr 90C Burkhardt 87 450 (87.33) Fayard 89 450 - 800 (87.33 - 116.2) Schukraft 88B 800 (116.2) Patterson 90 Stewart 90 Yamanaka 90 Streets 89 Tannenbaum 89 Winstein 89 Yamanaka 89 Yoshida 89 Gibbons 88 Gomez 86 Gomez 86B</p>
<p>p n</p> <p>0.1374 - 1.464 (1.883 - 2.243) Bystricky 86D 0.6103 (1.966) Sowinski 87 0.9543 (2.068) Ponting 88 1.463 (2.243) Bartlet 85 6 - 8 (3.63 - 4.11) 21 - 25 (6.424 - 6.984) Saidkhanov 86 100 - 300 (13.77 - 23.78) Bhattacharjee 89B 300 (23.78) Alimov 89B Artykov 86 Azimov 85E 400 (27.45) Bhattacharjee 90 Bhattacharjee 89C</p>	<p>p ³He</p> <p>0.0433 - 0.1374 (3.734 - 3.74) Beltramin 85 0.6444 - 1.11 (3.88 - 4.1) Hasell 85 0.8081 - 1.023 (3.951 - 4.056) Epstein 85 0.8354 - 1.671 (3.964 - 4.404) Blinov 88 1.6 - 1.9 (4.365 - 4.531) Zielinsky 88 1.61 (4.371) Yokosawa 85C 1.696 (4.418) Alkhaov 85 2.251 - 3.099 (4.724 - 5.176) Ellegaard 89 Ellegaard 85 5 (6.093) Abdullin 89H</p>	<p>p ⁹Be</p> <p>1.282 (9.889) Hoistad 86 1.696 (10.18) Baturin 87 2 (10.4) Dukhovskoy 87</p> <p>p Be</p> <p>0.5513 (9.467) Segel 85 0.5523 (9.468) Wang 85D 0.6266 - 0.8081 (9.503 - 9.599) Green 86B 0.6791 (9.529) Roy 85B 1.09 (9.773) Cebr 89 1.26 - 2.5 (9.886 - 10.78) Kuzichev 89 1.282 (9.901) Hoistad 86 1.35 - 3.75 (9.948 - 11.67) Gachurin 85 1.463 (10.03) Barlow 88 1.693 (10.19) Koptev 88 Abrasimov 85B 1.696 (10.19) Alkhaov 85B Baturin 85 Belostotsky 84 1.696 - 5.762 (10.19 - 13.01) Naudet 88B 1.742 - 5.762 (10.23 - 13.01) Naudet 88 2.03 - 10.1 (10.44 - 15.55) Ergakov 86 2.5 - 9.2 (10.78 - 15.05) Safronov 88 2.89 - 5.762 (11.06 - 13.01) Naudet 88C Roche 88 Roche 87 4.542 - 10.09 (12.22 - 15.54) Lepikhin 87 4.94 - 10.14 (12.48 - 15.57) Boyarinov 87 Boyarinov 86 5.762 (13.01) Letessiersel 89 Letessiersel 89B Roche 88B Roche 88C 6.37 - 8.08 (13.4 - 14.42) Arefiev 85 7.5 (14.08) Bayukov 85D Bayukov 85F Vorobiev 85B 10.1 (15.55) Safronov 88B Sibiritssev 88 Voronin 88 Vorontsov 88B 10.14 (15.57) Boyarinov 89 Boyarinov 88 Boyarinov 88B Boyarinov 88C Boyarinov 87B 12 (16.54) Abe 87B Abe 86C 13.3 - 18.5 (17.18 - 19.55) Bonner 88 14.97 - 64.99 (17.98 - 34.1) Belyaev 89D</p>	<p>p ¹⁰Bor</p> <p>0.6444 - 0.7453 (10.44 - 10.49) Ziegler 85 1.696 (11.13) Baturin 87 7.5 (15.12) Bayukov 85D Gavrilov 85B</p>
<p>p nucleon</p> <p>1.09 (2.114) Berezchnoj 85 1.696 - 5.762 (2.325 - 3.569) Naudet 88B 2 - 400 (2.433 - 27.45) Boos 86 70 (11.55) Belikov 89 Sviridov 88 200 - 360 (19.44 - 26.05) Cobbaert 87 300 (23.79) Artykov 90 Alimov 89B 400 (27.45) Virodov 89 Davenport 86 Green 86 Aziz 85 Badier 85B Georgiopolou 84 800 (38.8) Abdusamitov 89 808.1 (39) Albrow 88</p>	<p>p ⁴He</p> <p>46 - 400 (18.91 - 54.73) Gorshkova 85 1196 (94.5) Fredriksson 87 (124) Fischer 88 (157.5) Akesson 89 (220) Tannenbaum 89</p> <p>p He</p> <p>< 0.3104 (< 4.706) Donoghue 84D 0.3126 (4.707) Lang 85B 1.337 - 1.686 (5.192 - 5.401) Dobrovolsky 88 Velichko 85 1.696 (5.407) Alkhaov 85 Belostotsky 84 4.2 (6.846) Bartke 85 400 (54.75) Miettinen 88 530.3 - 1037 (63 - 88) Akesson 85F 966.9 (85) Bell 85D 1037 (88) Richard 87</p>	<p>p ¹¹Bor</p> <p>1.696 (12.07) Baturin 87 Alkhaov 85B 7.5 (16.15) Bayukov 85D Gavrilov 85B</p>	<p>p ¹²C</p> <p>0.046 (12.12) Sediak 88 0.6084 - 0.6462 (12.28 - 12.3) Bimbot 85 0.6444 (12.3) Cowley 88 0.8533 - 1.09 (12.42 - 12.57) Digiacomo 85 1.35 - 3.75 (12.75 - 14.57) Gachurin 85 1.696 (13.01) Baturin 87 Alkhaov 85B 4.2 (14.9) Bekmirzaev 87E 4.2 - 10 (14.9 - 18.72) Angelov 89 Bekmirzaev 89 4.3 - 9.9 (14.98 - 18.66) Bajramov 89 Kozma 89B 10 (18.72) Shahbazyan 90 Bekmirzaev 87 15 - 61 (21.49 - 38.6) Belyaev 88 Belyaev 88B</p>
<p>p deuteron</p> <p>0.2873 (2.842) Kistryn 89 < 0.3104 (< 2.847) Donoghue 84D 0.4446 - 1.09 (2.88 - 3.129) Fearing 86 0.5 (2.896) Rees 86 0.5 - 0.8 (2.896 - 3.004) Chalmers 85 0.5804 (2.922) Vanovers 85 0.8 (3.004) Adams 89 0.8081 - 1.09 (3.007 - 3.129) Silverman 85 0.896 (3.044) Mayer 89 0.9 - 1.1 (3.046 - 3.134) Mayer 86 0.9543 (3.069) Ponting 88 1.085 - 1.463 (3.127 - 3.304) Sun 85 1.09 - 1.463 (3.129 - 3.304) Rahbar 87 1.098 (3.133) Debebe 85 1.099 (3.134) Perdrisat 84</p>	<p>p ⁶Li</p> <p>0.4895 - 0.6444 (6.629 - 6.696) Warner 85 1.35 - 3.75 (7.106 - 8.679) Gachurin 85 1.696 (7.334) Alkhaov 85B 2 (7.537) Dukhovskoy 87 7.5 (10.8) Bayukov 85D</p>	<p>Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.</p>	

p ¹²C

p ¹² C	p C	p Mg	p ²⁷ Al
16.97 - 31.99 (22.49 - 29.01) Belyaev 89 16.97 - 61.99 (22.49 - 38.89) Belyaev 88C		100 (71) Toothacher 87 200 (97.82) Brick 90 Brick 89 Abe 88	1.696 (27.04) Baturin 87 4.491 (29.4) Damdinsuren 87
p C		p ²⁵Mg	p Si
0.3956 - 1.199 (12.2 - 12.65) McNaughton 86 0.5513 (12.26) Segel 85 0.9543 - 1.023 (12.49 - 12.53) Falk 83 1 - 9 (12.52 - 18.13) Bayukov 85C Bayukov 85E 1.206 (12.66) Binz 89 1.26 - 2.5 (12.7 - 13.63) Kuzichev 89 Barlow 88 Miake 84 1.693 (13.01) Koptyeu 88 Abrosimov 85B 1.696 (13.02) Baturin 87B Andronenko 86 Baturin 85 Belostotsky 84 - 18.73) 2 - 10 (13.25 - 17.83) Kutsidi 86 3 - 7.5 (14.01 - 17.18) Vorobiev 89C Bayukov 86 3.88 (14.68) Nagae 87 3.9 (14.69) Nakai 89 4.2 (14.91) Agakishiev 89B Aliiev 89 Grigalashvil 88 Gulkanyan 88D Mekhtiev 88 Pluta 88B Kopylova 87 Armutlijsky 86B Armutlijsky 86C Simich 86 Bartke 85 Agakishiev 84B 4.2 - 10 (14.91 - 18.73) Baatar 89 Agakishiev 88 Angelov 88 Baatar 88 Baldin 88C Armutlijsky 87C Armutlijsky 87D Baatar 87B 4.338 (15.01) Ohmori 89 4.5 (15.13) Abraamyan 88 5.1 (15.56) Budilov 90 6 - 10 (16.18 - 18.73) Heppelmann 89 6 - 12 (16.18 - 19.88) Carroll 88 7.48 (17.17) Abashidze 85B Vlasov 90 Vorobiev 90 Vorobiev 90B Bayukov 89 Bayukov 89B Bayukov 89C Vlasov 89 Vlasov 89B Vorobiev 89B Bayukov 88 Vlasov 88 Vorobiev 88D Vorobiev 87C Vlasov 86 Vorobiev 86B Bayukov 85D Bayukov 85F Vorobiev 85B 10 (18.73) Armutlijsky 88 Lyubimov 88 Agakishiev 87B Armutlijsky 87 Armutlijsky 87B	14.5 (21.24) Rensberg 88 Tannenbaum 88 17.98 - 63.99 (23 - 39.47) Belyaev 89C 25 - 65 (26.19 - 39.76) 70 (41.14) Afanasyev 90 Afanasyev 90B Abramov 84E 200 (67.83) Badier 85C Badier 85E Badier 85F Bardadinotwi 85 Schmidt 88 Miettinen 88 200.9 (67.99) 400 (95.27) 106.4 - 473.2) Avakyan 89C 530 (109.5) 800 (134.3) De 89 Ishira 90 Tewart 90 Tannenbaum 89 Gomez 86 Gomez 86B	p Al 1.26 - 2.5 (26.67 - 27.69) Kuzichev 89 1.693 (27.02) Koptyeu 88 Abrosimov 85B 1.696 (27.02) Baturin 85 Belostotsky 84 2.03 - 10.1 (27.29 - 33.8) Ergakov 86 2.5 - 9.2 (27.69 - 33.13) Safronov 88 3 - 7.5 (28.12 - 31.82) Vorobiev 89C 3.88 (28.87) Nagae 87 3.9 (28.88) Nakai 89 4 (28.97) Tokushuku 90 Enyo 85 4.542 - 10.09 (29.42 - 33.8) Lepikhin 87 4.94 - 10.14 (29.75 - 33.83) Boyarinov 87 Boyarinov 86 5.762 (30.43) Shibata 86 6 - 10 (30.62 - 33.73) Heppelmann 89 6 - 12 (30.62 - 35.18) Carroll 88 6.37 - 8.08 (30.92 - 32.27) Arefiev 85 7.5 (31.82) Bayukov 85 Bayukov 85F 8.9 (32.9) Averchikov 87 Safronov 88B Sibirsev 88 Voronin 88 Vorontsov 88B 10.14 (33.83) Boyarinov 89 Boyarinov 88 Boyarinov 88B Boyarinov 88C Boyarinov 87B 14.5 (36.92) Rensberg 88 Tannenbaum 88 14.97 - 64.99 (37.24 - 62.45) Belyaev 89B 25 - 65 (43.48 - 62.45) Belyaev 88D 28.4 (45.4) Snow 85 70 (64.43) Barkov 85C Abramov 84E 220 - 1500 (108.1 - 275.7) Dzhaoshevili 90 300 (125.3) Cobbaert 88 Cobbaert 88B 360 (136.9) Bailly 88 Bailly 87D 400 (144) Miettinen 88 450.9 (152.6) Schukraft 88B 530 (165.1) De 89 800 (202.1) Streets 89 Tannenbaum 89 Gomez 86 Gomez 86B > 10 ³ (> 225.6) Berdzenishvi 85	p ²⁷Al 530 (197.1) De 89 p Ar 200 (127.6) Klar 84 Derado 88 Dengler 86C p ⁴⁰Ar 1.696 (39.16) Ermakov 86 Ermakov 86B p ⁴⁰Ca 0.6444 - 0.9543 (38.39 - 38.59) Lee 88 1.09 (38.68) Bereshnoy 85 Seth 85 1.696 (39.16) Baturin 87 p ⁴⁰Ca 0.5 (38.39) Rees 86 800 (247.2) Mishra 90 p ⁴⁴Ca 1.696 (42.89) Baturin 87 p Ti 1.693 (46.52) Koptyeu 88 Abrosimov 85B 3 - 7.5 (47.67 - 51.64) Bayukov 86 Vlasov 90 Bayukov 89B Bayukov 89C Bayukov 89B Vlasov 89 Vlasov 89B Bayukov 88 Vlasov 88 Vlasov 86 Bayukov 85F 14.97 - 64.99 (57.71 - 88.27) Belyaev 89B 25 - 65 (65 - 88.28) Belyaev 88D 28.3 (67.22) Krizmanic 89 Lile 89 p ⁴⁸Ca 0.5211 - 0.5708 (45.78 - 45.81) Anderson 85B 1.09 (46.14) Seth 85 p Va 0.2941 - 0.6444 (48.43 - 48.58) Michel 85 p ⁵⁴Fe 0.4938 (51.36) Dickey 85 p ⁵⁵Mn 0.2941 - 0.6444 (52.18 - 52.33) 4.491 (55.61) Kozma 90B Kozma 88B p Fe 1.26 - 2.5 (53.58 - 54.64) Kuzichev 89 7.5 (59.11) Bayukov 85F 70 (99.95) Belikov 89
	p ¹³C		
	0.0573 (13.05) Savage 88C Savage 86B 0.5708 (13.19) Goodman 85 1.696 (13.94) Alkhazov 85B		
	p ¹⁴Nit		
	21 (26.82) Bajramov 89		
	p Nit		
	1.696 (14.89) Alkhazov 85B		
	p ¹⁵Nit		
	0.5708 (15.06) Goodman 85		
	p ¹⁶O		
	0.6444 (16.03) Glover 85B 1.696 (16.75) Baturin 87 Alkhazov 85B		
	p F1		
	7.5 (24.12) Bayukov 85D		
	p ¹⁹F1		
	0.0398 (18.64) Savage 88C 0.057 (18.64) Bini 89B 1.696 (19.56) Baturin 87		
	p ²⁰Ne		
	300 (107.4) Aliev 89 Altinov 89 Altinov 88 Zielinsky 88 Aliaberdin 87		
	p Ne		
	28 (37.5) Fredriksson 87 300 (107.8) Artykov 90 Artykov 86 Azimov 86 Azimov 85 Azimov 85E Azimov 85F Azimov 84B Azimov 84C		
	p Na		
	1.463 (23.1) Miake 84		
	p ²⁴Mg		
	1.696 (24.23) Baturin 87 100 (70.51) Biswas 86		

p Fe

p Ta

p Fe	Sviridov 88 Cobbaert 88 Cobbaert 88B Maraki 84 (233.9 – 1021) Avakyan 89C (233.9 – 723.1) Avakyan 85D Avakyan 85E 800 (293.2) Mishra 90 Streets 89
p ⁵⁸Ni	0.4207 (55.05) Machner 85 0.5513 (55.11) Segel 85 7.5 (61.13) Bayukov 85D Gavrilov 85B
p Ni	4.491 (59.11) Kozma 88B 7.5 (61.79) Bayukov 85D 9 (63.1) Kozma 86B
p ⁵⁹Co	0.2941 – 0.6444 (55.94 – 56.09) Michel 85 4.491 (59.38) Kozma 90B Kozma 88B
p ⁶²Ni	0.5513 (58.84) Segel 85
p Cu	0.8459 – 0.9189 (60.45 – 60.5) Haysak 85 0.8474 – 0.9608 (60.46 – 60.54) Akimov 89 1 – 9 (60.56 – 67.65) Bayukov 85C Bayukov 85E 1.26 – 2.5 (60.75 – 61.82) Kuzichev 89 1.693 (61.11) Kopteyev 88 Abrasimov 85B 1.696 (61.11) Baturin 87 Baturin 86 Baturin 85 Belostotsky 84 2.03 – 10.1 (61.4 – 68.6) Ergakov 86 2.5 – 9.2 (61.82 – 67.82) Safronov 88 3 – 7.5 (62.27 – 66.33) Vorobiev 89C 3.88 (63.07) Nagae 87 3.9 (63.09) Nakai 89 4.338 (63.49) Ohmori 89 4.491 (63.63) Kozma 88B 4.542 – 10.09 (63.67 – 68.6) Lepikhin 87 4.94 – 10.14 (64.04 – 68.64) Boyarinov 87 Boyarinov 86 6 – 10 (64.99 – 68.51) Heppelmann 89 Carroll 88 6.37 – 8.08 (65.33 – 66.84) Arefiev 85 7.48 (66.31) Abashidze 85B 7.5 (66.33) Vorobiev 90B Vorobiev 87C Bayukov 85 Bayukov 85D Bayukov 85F Averchikov 87 9 (67.65) Kozma 86 10.1 (68.6) Safronov 88B Vorontsov 88 Vorontsov 88B Boyarinov 89 Boyarinov 88 Boyarinov 88B Boyarinov 88C Boyarinov 87B

p Cu	12 (70.22) Inagaki 89C Abe 87B Abe 86C 14.5 (72.29) Rensberg 88 Tannenbaum 88 Ohl 90 24 (79.68) Snow 85 28.4 (82.88) Abramov 86 70 (108.6) Abramov 84D Abramov 84E 120 (133.1) Bailey 85B 200.9 (165.2) Sonderegger 89 Schmidt 88 220 – 1500 (171.9 – 425.6) Dzhaoshvili 90 Crittenden 86 300 (197.5) Trost 89 400 (225.5) Duffy 88 Miettinen 88 Dorenbosch 87 Talebzadeh 87 Beretvas 86 Brown 86 Dorenbosch 86B Grasser 86 Glasler 86 Bergsma 85 Coopersarkar 85 Coopersarkar 85B 300 (197.5) Hsiung 85 400 (225.5) Wah 85 Cardello 84 Thron 84 De 89 Stewart 90 Brown 89 Guo 89 Tannenbaum 89 Brown 86B Gomez 86 Gomez 86B > 10 ³ (> 349.1) Berdzenishvi 85
p ⁶⁴Ni	0.5513 (60.7) Segel 85 7.5 (66.75) Bayukov 85D Gavrilov 85B
p ⁶⁴Cu	4.491 (64.05) Kozma 90B
p ⁶⁵Zn	1.35 – 3.75 (62.18 – 64.3) Gachurin 85
p Zn	7.5 (68.05) Bayukov 85D
p ⁷¹Ga	0.4895 – 0.6444 (67.16 – 67.24) Krofcheck 85
p ⁸¹Br	0.6266 – 0.6444 (76.58 – 76.59) Krofcheck 87
p Kr	80.93 – 350.9 (136.9 – 246.7) Shibata 86
p ⁸⁹Yt	0.6084 – 0.6462 (84.02 – 84.04) Bimbot 85 4.491 (87.37) Kozma 90B
p ⁹⁰Zr	0.4207 (84.86) Machner 85 0.6444 – 0.9543 (84.97 – 85.17) Lee 88
p Zr	1.693 (86.89) Kopteyev 88

p Zr	Abrasimov 85B
p Nb	7.5 (93.8) Bayukov 85F
p Mo	14.97 – 64.99 (103.3 – 140) Belyaev 89B 17.5 – 63 (105.5 – 138.7) Belyaev 85 17.98 – 63.99 (105.9 – 139.4) Belyaev 89C 25 – 65 (111.6 – 140) Belyaev 88D
p ⁹⁸Mo	0.4895 (92.36) Rapaport 85
p Ag	0.6266 – 1.064 (101.6 – 101.9) Green 86B 1.09 (101.9) Cebra 89 1.463 (102.2) Mlake 84 1.696 (102.4) Andronenko 86 Roepke 85 4.491 (105) Kozma 90 4.9 (105.4) Hufner 85 5.762 (106.2) Shibata 86 100 (173.8) Toothacker 87 120 (185) Bailey 85B 200 (224.3) Brick 90 Brick 89 Abe 88 200.9 (224.7) Schmidt 88 300 (265.3) Bujak 85
p ¹⁰⁸Ag	4.491 (105.1) Kozma 90B 100 (173.9) Biswas 86
p ¹¹²Sn	7.5 (111.6) Bayukov 85D Gavrilov 85B
p Cd	1.26 – 2.5 (106.3 – 107.3) Kuzichev 89 3 – 7.5 (107.8 – 112) Vorobiev 89C 7.5 (112) Bayukov 85F
p In	7.5 (114.3) Bayukov 85D
p ¹¹⁵In	0.4895 (108.2) Rapaport 85
p ¹¹⁶Sn	0.5513 (109.1) Segel 85 1.696 (110) Baturin 87
p Sn	1.693 (112.5) Kopteyev 88 Abrasimov 85B 1 696 (112.5) Baturin 85 7.5 (117.9) Bayukov 85D Bayukov 85F 70 (166.4) Abramov 84E 400 (317.3) Miettinen 88
p ¹²⁰Sn	0.3467 (112.8) Machner 85
p ¹²⁴Sn	0.5513 (116.6) Segel 85 1.696 (117.4) Baturin 87 7.5 (122.8) Bayukov 85D Gavrilov 85B

p Xe	1 – 19 (123.7 – 140.1) Sangster 87 1 – 20 (123.7 – 140.9) Mahi 88 5.762 (128) Shibata 86 30 – 300 (149.3 – 297.2) Hufner 85 200 (252.8) Klar 84 Derado 88 Dengler 86C
p ¹³³Cs	0.6444 (125) Wagner 85
p ¹⁴⁰Ce	0.4938 (131.5) Dickey 85
p Tb	0.3438 – 1.627 (149 – 149.9) Aleksandrov 89 1.696 (150) Aleksandrov 87B
p ¹⁵⁰Tb	4.491 (152.6) Kozma 90B
p Ho	0.3438 – 1.627 (154.6 – 155.5) Aleksandrov 89 1.696 (155.6) Aleksandrov 87B
p Gd	0.3438 – 1.627 (158.2 – 159.1) Aleksandrov 89 1.696 (159.2) Aleksandrov 87B
p Tm	0.3438 – 1.627 (158.4 – 159.2) Aleksandrov 89 1.696 (159.3) Aleksandrov 87B
p Ta	0.34 – 5.7 (169.5 – 174.2) Hufner 85 0.3438 – 1.627 (169.5 – 170.4) Aleksandrov 89 1 – 10 (169.9 – 178.3) Kutsidi 86 1.693 (170.5) Kopteyev 88 Abrasimov 85B 1.696 (170.5) Aleksandrov 87B 2.03 – 10.1 (170.8 – 178.4) Ergakov 86 2.3 (171) Grigalashvil 88 2.5 – 9.2 (171.2 – 177.6) Safronov 88 4.2 (172.8) Gulkanyan 88D Gulkanyan 87D Bartke 85 4.2 – 10 (172.8 – 178.3) Armutlijsky 87C 4.491 (173.1) Kozma 89 4.94 – 10.14 (173.5 – 178.4) Boyarinov 87 Boyarinov 86 6.37 – 8.08 (174.9 – 176.5) Arefiev 85 7.5 (175.9) Bayukov 85F 10 (178.3) Agakishiev 88 Pluta 88B Agakishiev 87 Agakishiev 87B Armutlijsky 87B Baldin 86 Baldin 86B Baldin 85 10.1 (178.4) Safronov 88B Sibirtsev 88 Vorontsov 88 Vorontsov 88B Boyarinov 89 Boyarinov 88 Boyarinov 88B

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

p Ta

<p>p Ta</p> <p>Boyarinov 88C Boyarinov 87B</p>	<p>p Au</p> <p>Bamberger 86 Bailly 86 Bailly 87D</p>	<p>p Pb</p> <p>530 (491.8) De 89 800 (588.3) Stewart 90 Tannenbaum 89 Gomez 86 Gomez 86B Matis 86 Berdzenishvi 85</p>	<p>p nucleus</p> <p>70</p> <p>70 - 250</p> <p>90.2 - 99 185 200</p> <p>200 - 360 200 - 400</p> <p>200 - 800</p> <p>200.9 220 - 1500 225 300 - 800 300 - 1600 400</p> <p>500 - 5 · 10³ < 800 800</p> <p>> 10³ 10³ - 10⁵ 4 · 10⁵ - 5 · 10⁵</p> <p>> 5 · 10³ 8 · 10⁴ 10⁵ - 10¹⁰ 3 · 10⁵ - 5 · 10⁵</p> <p>10⁶ 2 · 10⁷ ?</p> <p>p supernucleus</p> <p>0.1374 Norman 87B</p>
<p>p ¹⁸¹Ta</p> <p>0.0433 - 0.1567 (169.5 - 169.6) 1.35 - 3.75 (170.2 - 172.4) 1.696 (170.5) Gachurin 85 4.491 (173.1) Baturin 87 9 (177.4) Kozma 90B Kozma 87</p>	<p>p ¹⁹⁷Au</p> <p>0.6444 (185.5) Machner 85 1.696 (186.3) Chestnov 87 4.491 (188.9) Kozma 90 Kozma 90B Damdinsuren 88B Kozina 88 Biswas 86</p>	<p>p ²⁰⁸Pb</p> <p>0.6444 (194.9) Morsch 85 0.6444 - 0.9543 (194.9 - 195.1) Lee 88</p>	<p>Absemetova 85 Bhattacharje 89 Prokoshkin 87C Lyukov 89 Batusov 85 Batusov 85B Antonchik 87 Akhurin 89 Brick 90 Abe 88 Boos 86C Eriqev 85 Takibaez 90 Boos 88B Aggarwal 85 Andreva 85B Buschbeck 89 Holyński 89B Holyński 89 Dzhaoshvili 90 Rutherford 85 Jain 88B Avakyan 85F Ahmad 90 Moore 90 Tariq 90 Shivpuri 88 Shivpuri 88B Shivpuri 87 Berger 86B Rosner 85E Avakyan 85C Sulyaev 88 Mishra 90 Abduzhamilov 89 Abduzhamilov 88C Barbier 88 Abdurazakova 87 Abduzhamilov 87 Jain 87B Shivpuri 87B Jain 86 Matis 86 Reiner 86 Berdzenishvi 85 Kawamura 89</p>
<p>p Wt</p> <p>10 (181) Bertin 88 12 (182.9) Abe 87B Abe 86C 14.97 - 64.99 (185.7 - 227.1) Belyaev 89B 25 - 65 (194.7 - 227.1) Belyaev 88D 70 (230.9) Barkov 85C 120 (265.4) Bailey 85B 125 (268.6) Anassontzis 85 200.9 (313.3) Akesson 89D Akesson 89E Bartels 88 Schukraft 88B Bertin 86 Crittenden 86 Duffy 88 Brown 86 Duffy 86 Badier 85B Badier 85D Childers 85 Duffy 85 Hsiung 85 Romanowski 85 Mishra 90 Kaplan 89 Streets 89</p>	<p>p Hg</p> <p>800 (577.8) Matis 88 Matis 86</p> <p>p ²⁰⁷Pb</p> <p>1.35 - 3.75 (194.4 - 196.6) Gachurin 85</p>	<p>p Bi</p> <p>0.5513 (195.8) Segel 85</p> <p>p ²⁰⁹Bi</p> <p>0.4207 (195.7) Machner 85 0.4895 - 1.463 (195.7 - 196.4) Dombzky 85 1.35 - 3.75 (196.3 - 198.5) Gachurin 85</p>	<p>200 - 800</p> <p>200.9 220 - 1500 225 300 - 800 300 - 1600 400</p>
<p>p ¹⁸⁴Wt</p> <p>1.696 (173.3) Chestnov 87</p> <p>p Pt</p> <p>12 (193.4) Nakamura 89 28.4 (208.2) Snow 85</p>	<p>p Pb</p> <p>0.5 (194.1) Rees 86 0.6084 - 0.6462 (194.1 - 194.1) Bimbot 85 1 - 9 (194.4 - 201.9) Bayukov 85C Bayukov 85E 1.206 (194.5) Faisner 89 Faisner 88 1.26 - 2.5 (194.6 - 195.7) Kuzichev 89 1.463 (194.7) Miaka 84 1.693 (194.9) Koptyev 88 1.696 (194.9) Abrosimov 85B Baturin 87B Baturin 85 Belostotsky 84 Schnetzer 89 3 - 7.5 (196.1 - 200.4) Vorobiev 89C Vorobiev 86 4 (197.1) Tokushuku 90 Enyo 85</p>	<p>p Ac</p> <p>3.9 (215.4) Nakai 89</p> <p>p ²³²Th</p> <p>1.696 (218) Chestnov 87</p> <p>p ²³⁸U</p> <p>0.8533 - 1.09 (223 - 223.1) Digiacocone 85 1.35 - 3.75 (223.3 - 225.5) Gachurin 85 1.696 (223.6) Filatov 88 28 (248.1) Hufner 85 200.9 (371.8) Sonderegger 88</p>	<p>500 - 5 · 10³ < 800 800</p>
<p>p Au</p> <p>0.3438 - 1.627 (184.5 - 185.3) Aleksandrov 89 1 - 300 (184.8 - 379.1) Hufner 85 1.696 (185.4) Aleksandrov 87B 2.55 (186.2) Avdejchikov 87I 3.308 - 8.396 (186.9 - 191.7) Avdejchikov 87B Avdejchikov 87E 3.36 - 8.396 (186.9 - 191.7) Avdejchikov 87 Avdejchikov 87C 5.1 (188.6) Budilov 90 7.48 (190.9) Abashidze 85B 14.5 (197.5) Remsburg 88 Tannenbaum 88 60.93 - 200.9 (236.7 - 327.7) Bamberger 89 Franz 88B Löhner 88 Veszergombi 88 Tothacker 87 Brick 90 Brick 89 London 89 Tannenbaum 89 Abe 88 Odynic 89 Pugh 89 Albrecht 88B Schmidt 88 Strobele 88 Schmidt 87</p>	<p>4.91 (197.5) Kozma 90B Damdinsuren 89 4.5 (197.6) Voronko 88 4.5 - 7.5 (197.6 - 200.4) Vorobiev 86B 6 - 10 (199 - 202.8) Heppelmann 89 Carroll 88 Vlasov 90 Vorobiev 90 Vorobiev 90B Bayukov 89 Bayukov 89B Bayukov 89C Vlasov 89 Vlasov 89B Vorobiev 89B Bayukov 88 Vlasov 88 Vorobiev 88D Vorobiev 87C Vlasov 86 Bayukov 85 Bayukov 85B Bayukov 85F Vorobiev 85B Averichev 89 Abramov 86 Abramov 86B Abramov 84D Abramov 84E Underwood 89 Akesson 88B 220 - 1500 (349.5 - 785) Dzhaoshvili 90 300 (391.2) Muraki 84 400 (437.8) Lundberg 89 Miettinen 88 Beretvas 86 Avakyan 89C</p>	<p>p U</p> <p>1 - 9 (223.1 - 230.6) Bayukov 85C Bayukov 85E 1.693 (223.7) Koptyev 88 Abrosimov 85B 4.9 (226.7) Hufner 85 5.762 (227.5) Shibata 86 7.5 (229.2) Bayukov 85 Bayukov 85F 120 (320) Bailey 85B 200.9 (371.9) Sonderegger 89 300 (426.9) Cobbaert 88 Cobhaert 88B Catanesi 89</p> <p>p nucleus</p> <p>1.05 - 400.9 Atageldieva 88 1.4 - 400 Gavrilov 85 1.5 Harter 85 1.921 Antonchik 90B 2.03 - 10.1 Sibirtev 90 2.401 - 15.01 Ablev 87D 2.89 Schnetzer 89 Stock 87 Grishin 88B 4.2 Vokal 88 4.5 Vokanik 87B Leskin 86 5 - 300 Fredriksson 87 5.7 - 205 Baldin 87 6.129 - 800 Kumar 89 7.1 Guaraldo 89B Shahbazyan 88 Baldin 85 Kopylova 86 Panagiotou 89 Bernardi 85 Bajramov 89 24 - 400 Azimov 85 24 - 400 Abduzhamilov 88B 30 - 400 Kim 85 67 - 400 Takibaez 88</p>	<p>200 - 800</p> <p>200.9 220 - 1500 225 300 - 800 300 - 1600 400</p> <p>500 - 5 · 10³ < 800 800</p> <p>> 10³ 10³ - 10⁵ 4 · 10⁵ - 5 · 10⁵</p> <p>> 5 · 10³ 8 · 10⁴ 10⁵ - 10¹⁰ 3 · 10⁵ - 5 · 10⁵</p> <p>10⁶ 2 · 10⁷ ?</p> <p>p supernucleus</p> <p>0.1374 Norman 87B</p>
<p>p ¹⁸⁴Wt</p> <p>1.696 (173.3) Chestnov 87</p>	<p>p Au</p> <p>8.9 (201.8) 70 (253.5)</p> <p>185 (329.6) 200 (338.3) 220 - 1500 (349.5 - 785) 300 (391.2) 400 (437.8) (479.9 - 1974) Avakyan 89C</p>	<p>p nucleus</p> <p>1.05 - 400.9 Atageldieva 88 1.4 - 400 Gavrilov 85 1.5 Harter 85 1.921 Antonchik 90B 2.03 - 10.1 Sibirtev 90 2.401 - 15.01 Ablev 87D 2.89 Schnetzer 89 Stock 87 Grishin 88B 4.2 Vokal 88 4.5 Vokanik 87B Leskin 86 5 - 300 Fredriksson 87 5.7 - 205 Baldin 87 6.129 - 800 Kumar 89 7.1 Guaraldo 89B Shahbazyan 88 Baldin 85 Kopylova 86 Panagiotou 89 Bernardi 85 Bajramov 89 24 - 400 Azimov 85 24 - 400 Abduzhamilov 88B 30 - 400 Kim 85 67 - 400 Takibaez 88</p>	<p>p</p> <p>> 0.01 Hirata 88E 0.1 - 2 Nieminen 85 0.5742 - 0.7481 Yock 86 10³ - 10⁵ Ivanenko 89 > 2 · 10³ Ivanenko 88B > 25 · 10³ Grigorov 89B</p> <p>n p</p> <p>0 (1.878) Borzakov 87 Enghardt 87 Greene 86 0.025 (1.878) Sromicki 86 0.1228 - 1.505 (1.882 - 2.257) Vanoers 85 0.1374 - 1.464 (1.883 - 2.242) Bystricky 86D 0.22 - 0.477 (1.89 - 1.934) Abegg 89B < 0.3106 (< 1.903) Donoghue 84D 0.4898 - 1.194 (1.937 - 2.148) Grundies 85</p>

n p

nucleon Pb

<i>n p</i> 0.5317 - 1.207 (1.947 - 2.153) Binz 89B 0.618 (1.968) Meyer 85D 0.6448 - 1.091 (1.975 - 2.113) Davis 88 1 (2.002 - 2.018) Hutcheon 89 0.7618 (2.008) Fearing 86 0.9237 - 1.793 (2.058 - 2.358) Terrier 87 0.9237 - 1.85 (2.058 - 2.378) Dobrovolsky 88 1 - 4.2 (2.083 - 3.137) Bekmirzaev 87B i - 5 (2.083 - 3.363) Yokosawa 85C 1 - 6 (2.083 - 3.628) Yokosawa 85 1 - 200 (2.083 - 19.42) Azimov 85D 1.06 (2.103) Abegg 89 Abegg 85 1.069 - 1.45 (2.106 - 2.237) Garnett 89 1.091 - 1.464 (2.113 - 2.242) Ditzler 87 < 1.1 (< 2.116) Arndt 87 1.25 - 2.23 (2.167 - 2.511) Troyan 88 Beshliu 88 1.25 - 5.1 (2.167 - 3.39) Zielinsky 88 Beshliu 86 1.257 (2.17) Troyan 86 1.257 - 1.788 (2.17 - 2.356) Ball 88 Lehar 87 1.261 - 1.68 (2.171 - 2.318) Korolev 85 1.373 - 1.696 (2.21 - 2.324) Bystricky 85 1.397 - 1.457 (2.219 - 2.24) Delesquen 88 1.452 (2.238) Nath 89 < 1.697 (< 2.324) Lechanoinele 86 1.73 (2.336) Glagolev 89C 3 - 200 (2.768 - 19.42) Prokoshkin 87C 4.2 (3.137) Bekmirzaev 88B Bekmirzaev 87C < 5 (< 3.363) Bystricky 87 6.1 (3.653) Batyunya 86B 20 - 70 (6.272 - 11.54) Aleev 89 Aleev 89B Aleev 88D Aleev 88F 30 - 70 (7.621 - 11.54) Aleev 89C 40 (8.766) Aleev 88B Aleev 88G 40 - 70 (8.766 - 11.54) Vecko 89 Aleev 88C Ananiev 83 <i>n n</i> 6.1 (3.656) Batyunya 85D <i>n nucleon</i> 560 (32.47) Cumalat 87 <i>n deuteron</i> < 0.3106 (< 2.848) Donoghue 84D <i>n Be</i> 0.5712 - 1.188 (9.477 - 9.838) Franz 88 640 (104) Klein 89C Shipbaugh 88B Coteus 87 Coteus 87B	<i>n Be</i> Cumalat 87B Diesburg 87 Filaseta 87B Shipbaugh 87 <i>n ¹⁰Bor</i> 0 (10.26) Ermakov 86C <i>n Bor</i> ? Ananiev 83 <i>n ¹²C</i> 0.8085 - 1.194 (12.39 - 12.64) Franz 89 1 - 4.2 (12.51 - 14.9) Bekmirzaev 87B 1.149 (12.61) Franz 85 3 - 10 (14.01 - 18.72) Aleksejev 88 <i>n C</i> 0.5712 - 1.188 (12.27 - 12.65) Franz 88 0.8085 - 1.194 (12.4 - 12.65) Buchle 89 Buchle 88 0.8374 - 1.149 (12.42 - 12.62) Ero 87 1 - 200 (12.52 - 67.83) Azimov 85D 4.2 (14.91) Bekmirzaev 88 Bekmirzaev 88B Bekmirzaev 87C Kopylova 87 Bekmirzaev 86 Bekmirzaev 85 20 - 60 (23.96 - 38.32) Aleev 85B 20 - 70 (23.96 - 41.14) Aleev 89 Aleev 88D Aleev 88F Aleev 86B Kraestev 88 Aleev 87 40 (31.96) Prokoshkin 87C Aleev 86 40 - 70 (31.96 - 41.14) Klein 89C Aleev 88 Aleev 87B Aleev 86C Aleev 85 Aleev 84C (106.4 - 473.2) Avakyan 89C <i>n O</i> 0.5712 - 1.188 (15.99 - 16.37) Franz 88 <i>n ²⁰Ne</i> 1 - 200 (19.98 - 88.32) Azimov 85D <i>n Ne</i> 280 (104.3) Tzeng 85 <i>n Al</i> 0.5712 - 1.188 (26.23 - 26.62) Franz 88 20 - 60 (40.48 - 60.41) Aleev 85B 20 - 70 (40.48 - 64.43) Aleev 89 Aleev 88D Aleev 88F 40 (51.42) Kraestev 88 Aleev 87 40 - 70 (51.42 - 64.43) Aleev 87B Aleev 86C <i>n Si</i> 640 (184.9) Shipbaugh 88B	<i>n Si</i> Coteus 87 Coteus 87B Cumalat 87B Filaseta 87B Shipbaugh 87 <i>n ³⁵Cl</i> < 0.1304 (< 33.55) Avenier 85 <i>n Va</i> 0.5712 - 1.188 (48.55 - 48.95) Franz 88 <i>n Mn</i> 0.5712 - 1.188 (52.27 - 52.68) Franz 88 <i>n Fe</i> (233.9 - 1021) Avakyan 89C <i>n ⁵⁶Fe</i> < 0.005 (< 53.1) Vesna 89 <i>n Co</i> 0.5712 - 1.188 (55.99 - 56.4) Franz 88 <i>n Cu</i> 0.5712 - 1.188 (60.29 - 60.7) Franz 88 0.8085 - 1.194 (60.43 - 60.7) Buchle 89 Franz 89 20 - 60 (76.65 - 103) Aleev 85B 20 - 70 (76.65 - 108.6) Aleev 89 Aleev 88D Aleev 88F 40 (90.79) Kraestev 88 Aleev 87 40 - 70 (90.79 - 108.6) Aleev 87B Aleev 86C <i>n Ag</i> 0.5712 - 1.188 (101.6 - 102) Franz 88 <i>n ¹¹³Cd</i> < 0.005 (< 106.1) Vesna 89 <i>n Ce</i> 0.5712 - 1.188 (131.6 - 132) Franz 88 <i>n Ta</i> 0.5712 - 1.188 (169.6 - 170.1) Franz 88 4.2 (172.8) Bekmirzaev 88 Bekmirzaev 87C Bekmirzaev 86 <i>n Wt</i> 640 (498.5) Shipbaugh 88B Coteus 87 Cumalat 87B Filaseta 87B Shipbaugh 87 <i>n ²⁰⁷Pb</i> < 0.0971 (< 193.7) Abov 89 <i>n Pb</i> 0.5712 - 1.188 (194.1 - 194.5) Franz 88 (479.9 - 1974) Avakyan 89C <i>n ²⁰⁸Pb</i> 0.0868 - 0.7296 (194.7 - 194.9) Schutt 88	<i>n Bi</i> 0.5712 - 1.188 (195.8 - 196.2) Franz 88 0.8085 - 1.194 (195.9 - 196.2) Buchle 89 Franz 89 <i>n ²³⁸U</i> 0.1501655 · 10 ⁻⁴ (218) Bondarenko 87 <i>n ²³⁵U</i> 0.1501655 · 10 ⁻⁴ (219.8) Bondarenko 87B <i>n ²³⁸U</i> 0 (222.6) Damdinsuren 88 0.1501655 · 10 ⁻⁴ (222.6) Bondarenko 87B <i>n U</i> 0.5712 - 1.188 (222.8 - 223.2) Franz 88 <i>n ²³⁹Pu</i> 0.1501655 · 10 ⁻⁴ (223.6) Bondarenko 87B <i>n nucleus</i> < 0.2 · 10 ⁻⁴ 7 40 40 - 70 160 - 375 640 Klein 89C <i>n</i> > 10 ³ Nieminen 85 <i>n p</i> 0.1 - 0.5 (1.88 - 1.939) Armstrong 87B Armstrong 86C 0.48 - 0.72 (1.935 - 1.996) Sedlak 88 0.5 - 0.8 (1.939 - 2.02) Banerjee 86C 0.7 (1.99) Banerjee 85 6.1 (3.653) Batyunya 88B Batyunya 87B Batyunya 86B Batyunya 84 <i>n n</i> 6.1 (3.656) Batyunya 87G Batyunya 85D <i>n nucleon</i> 0 (1.88) < 0.043 (< 1.88) Mutchler 88 <i>n ¹²C</i> 1.4 (12.79) Guaraldo 89B <i>n C</i> 0 (12.13) Bitter 89 Bressi 89 <i>n Ta</i> 6.1 (174.6) Andreev 90B 12.2 (180.4) Andreev 87 <i>n ¹⁸¹Ta</i> 6.1 (174.7) Guaraldo 89B <i>nucleon nucleon</i> 200.9 (19.48) Aoki 89 <i>nucleon Cu</i> 1.577 - 2.567 (61.01 - 61.88) Tolstov 87 <i>nucleon Pb</i> (2785 - 6216) Borisov 85D
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Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

nucleon nucleus

nucleon nucleus	deuterium p	deuteron C	deuteron ²⁰⁸Pb
10 - 256 A water 87 Cui 81	2.38 - 12 (3.176 - 5.214) Avdejchikov 88	Kopylova 87 Agakishiev 86B Armutlijsky 86B Armutlijsky 86C Simich 86 Armutlijsky 85 Agakishiev 84B Agakishiev 84E Armutlijsky 84 Azhgirej 88B Azhgirej 86	0.5172 (195.7) Machner 85 0.5745 (195.7) Morsch 85
A Be	3 (3.322) 3.146 - 3.229 (3.357 - 3.377) Berger 88C 3.3 (3.394) Yokosawa 85C 3.33 (3.401) Glagolev 90 Glagolev 89B Glagolev 89C Balgansuren 88 Glagolev 88 Shimansky 88 Zielinsky 88 Dolizze 86 Gulkanyan 89 - 4 (653)	9 (18.29)	deuteron Bj
80 - 350 (37.62 - 77.12) Petersen 86	9 (4.653)	deuteron Al	4.3 - 9 (199.3 - 203.7) Azhgirej 85
A Sn	1478 (52.7) Fredriksson 87	4.3 - 9 (29.51 - 33.13) Azhgirej 85	deuteron ²⁰⁹Bi
80 - 350 (173 - 299.4) Petersen 86	deuteron deuteron	deuteron ²⁷Al	9 (203.7) Butsev 85
A Pb	0.0335 - 0.436 (3.751 - 3.776) Weller 88 1.5 - 4 (4.006 - 4.859) Kishida 89 1.908 (4.132) Banaigs 87 2.38 - 4.18 (4.29 - 4.922) Avdejchikov 88 2.746 (4.417) Banaigs 86B 4.3 - 9 (4.963 - 6.444) Azhgirej 85 Clarke 86 9 (6.444) 7.9 (6.123) 9 (6.444)	deuteron Ti	deuteron ²³²Th
80 - 350 (261 - 415.2) Petersen 86	12.2 (7.303) 1023 (62) 1036 (62.4) (63 - 88) 1063 (63.2) (124) (126)	2.1 (47.39) Perdrisat 87	0.5172 (218.1) Machner 85
A nucleus	deuteron ⁵⁸Ni	deuteron ⁵⁸Ni	deuteron nucleus
80 - 350 Petersen 86	0.5536 (55.98) Machner 85	0.5536 (55.98) Machner 85	2.746 - 3.392 Bystricky 85 3.392 Gulkanyan 89 5.779 Schnetzer 89 8.2 Judea 86 8.4 Bales 85 90.2 - 99 Grishin 88B Antonchik 87
E⁻ Be	deuteron Ni	deuteron Ni	deuteron
135 (48.36) Klein 89C Augustin 88C Bourquin 86 Biagi 85 Biagi 84	9 (63.24) Kozma 86B	9 (63.24) Kozma 86B	1.15 - 1.497 Yock 86
E⁻ Wt	deuteron ⁶³Cu	deuteron ⁶³Cu	³H p
0 (172.5) Gall 86 0.1728 (172.5) Hertzog 88	0.4862 (60.62) Machner 85	0.4862 (60.62) Machner 85	5 (4.409) Abdullin 89 Abdullin 89B Abdullin 89C Abdullin 89D Abdullin 89F Abdullin 89G Abdullin 88B
E⁻ Pb	deuteron Cu	deuteron Cu	³H
0 (194.2) Gall 88 0.1728 (194.2) Hertzog 88	9 (67.8) Kozma 86	9 (67.8) Kozma 86	1.755 - 2.27 Yock 86
f₂(1270) nucleon	deuteron ⁹⁰Zr	deuteron ⁹⁰Zr	³He p
< 3.9 (< 3.197) Nakai 89	0.5172 (85.78) Machner 85	0.5172 (85.78) Machner 85	2.401 - 15.01 (3.95 - 6.11) Ableev 87D Blinov 85 2.5 (3.966) 2.5 - 5 (3.966 - 4.409) Blinov 88 Blinov 87B Blinov 86 Blinov 84B Blinov 89B Ableev 87 Ableev 87E Yokosawa 85C Zielinsky 88 Abdullin 90 Abdullin 89D Abdullin 89E Abdullin 89F Abdullin 88 Abdullin 88C Abdullin 88D Abdullin 87 Blinov 85D 13.44 - 13.56 (5.869 - 5.888) Bano 87 Glagolev 88B
E⁻ Be	deuteron ⁹³Nb	deuteron ⁹³Nb	³He ¹²C
116 (44.94) Schneider 90 Biagi 87 Biagi 87B Biagi 87C Biagi 86B	0.5536 (88.88) Machner 85 8.982 (95.68) Damdinsuren 89B 9 (95.7) Butsev 85	0.5536 (88.88) Machner 85 8.982 (95.68) Damdinsuren 89B 9 (95.7) Butsev 85	13.3 (199.8) Tanihata 85
E⁻ ¹²C	deuteron Ag	deuteron Ag	³He ¹²C
0 (12.5) May 89B	8.982 (109.3) Damdinsuren 89B	8.982 (109.3) Damdinsuren 89B	2.401 - 15.01 (14.67 - 21.77) Ableev 87D Blinov 85 4.4 - 18.3 (15.79 - 23.38) Ableev 87C Ableev 87E
E⁻ nucleus	deuteron ¹⁶⁰Tb	deuteron ¹⁶⁰Tb	³He C
0 May 89B	8 982 (157) Damdinsuren 89B 9 (157) Butsev 85	8 982 (157) Damdinsuren 89B 9 (157) Butsev 85	10.8 (19.56) Ableev 87B Ableev 84B 14.43 (21.49) Adyasevich 87 Adyasevich 85 Tanihata 85 (230.7)
deuteron p	deuteron Ta	deuteron Ta	³He Al
12.2 (5.25) Batyunya 84	2 - 10 (171.3 - 178.4) Kutsidi 86 Gulkanyan 88D 4.2 (173.1) Grigalashvil 88 4.6 (173.5) Armutlijsky 89 8.4 (177) Bekmirzaev 88 Gulkanyan 88C Armutlijsky 87C Gulkanyan 87B Gulkanyan 87D Armutlijsky 85 Gasparyan 85 Armutlijsky 84	2 - 10 (171.3 - 178.4) Kutsidi 86 Gulkanyan 88D 4.2 (173.1) Grigalashvil 88 4.6 (173.5) Armutlijsky 89 8.4 (177) Bekmirzaev 88 Gulkanyan 88C Armutlijsky 87C Gulkanyan 87B Gulkanyan 87D Armutlijsky 85 Gasparyan 85 Armutlijsky 84	(346.3) Tanihata 85
deuteron deuteron	deuteron ⁷Li	deuteron ⁷Li	
12.2 (7.303) Batyunya 87 Batyunya 87G Batyunya 87H Batyunya 87I	8.9 (12.83) Averichev 89	8.9 (12.83) Averichev 89	
deuteron Ta	deuteron ¹²C	deuteron ¹²C	
12.2 (180.5) Andreev 90B Andreev 87	8.982 (18.27) Kozma 89B 9 (18.28) Azhgirej 87 9.1 (18.34) Ableev 88	8.982 (18.27) Kozma 89B 9 (18.28) Azhgirej 87 9.1 (18.34) Ableev 88	
deuteron nucleus	deuteron C	deuteron C	
13.3 Prokoshkin 87C	1 (13.28) Viryasov 89 1.6 (13.56) Beznogikh 88 2.1 (13.85) Perdrisat 87 2.38 (14.02) Avdejchikov 88 3.392 (14.68) Gulkanyan 89 4 (15.08) Budilov 90 4.2 (15.22) Gulkanyan 88D Armutlijsky 87D 4.3 - 9 (15.29 - 18.29) Azhgirej 85 Ableev 84B 7.2 (17.18) Baatar 90 8.4 (17.92) Agakishiev 89B Angelov 88 Baldin 88C Bekmirzaev 88 Grigalashvil 88 Gulkanyan 88 Mekhtiev 88 Pluta 88B Zielinsky 88 Armutlijsky 87C	1 (13.28) Viryasov 89 1.6 (13.56) Beznogikh 88 2.1 (13.85) Perdrisat 87 2.38 (14.02) Avdejchikov 88 3.392 (14.68) Gulkanyan 89 4 (15.08) Budilov 90 4.2 (15.22) Gulkanyan 88D Armutlijsky 87D 4.3 - 9 (15.29 - 18.29) Azhgirej 85 Ableev 84B 7.2 (17.18) Baatar 90 8.4 (17.92) Agakishiev 89B Angelov 88 Baldin 88C Bekmirzaev 88 Grigalashvil 88 Gulkanyan 88 Mekhtiev 88 Pluta 88B Zielinsky 88 Armutlijsky 87C	
deuteron p			
1 (2.896) Viryasov 89 1.29 (2.944) Bondard 88 < 1.417 (< 2.968) Yokosawa 85 1.529 - 2.368 (2.99 - 3.173) Ball 87 1.829 - 1.9 (3.052 - 3.067) Delesquen 88 1.908 (3.069) Adams 87 2 - 3 (3.089 - 3.49) Sai 86 2.038 - 2.134 (3.098 - 3.119) Mayer 89 2.067 - 3.67 (3.104 - 3.483) Katayama 85 Perdrisat 87			

³He ²⁷Al

⁸Li Be

³He ²⁷Al 0.7149 (28.03) Machner 85	⁴He ²⁷Al 0.4323 (28.9) Dubar 89	He He Akeson 85D Cavasinni 85 Akeson 84B Akeson 85F Breakstone 86F	He Pb Anikina 85
³He ⁶²Ni 0.5919 (60.61) Machner 85	⁴He Cu 2.57 - 5.84 (63.67 - 65.87) Lhote 87	(126 - 176) 248)	He ²⁰⁸Pb 1.145 (197.6) Morsch 85 1.493 - 2.388 (197.8 - 198.2) Bonin 86
³He Cu 14.43 (72.47) Adyasevich 87 Adyasevich 85	5.838 (65.86) Lhote 89 16.51 (74.31) Abashidze 85B 19.24 (76.41) Adyasevich 85B	He Li 17.74 (17.03) Stock 87 18 (17.13) Anikina 85B	He nucleus 17.74 Stock 87 48 Claesson 85 < 60 Sengupta 89 < 803.7 Singh 88B 10 ³ - 10 ⁵ Kawamura 89
³He Pb 14.43 (207.2) Adyasevich 87 Adyasevich 85	⁴He Zr 0.4323 (88.72) Dubar 89	He Be 16.64 (19.25) Abashidze 84	He > 2 · 10 ³ Ivanenko 88B 4 · 10 ³ - 4 · 10 ⁴ Ivanenko 87
³He ²⁰⁸Pb 0.8956 (196.7) Morsch 85	⁴He Mo 0.4323 (93.12) Dubar 89	He ¹²C 16.64 (22.81) Abashidze 84	He 8.758 Kobayashi 89C
³He nucleus 2.401 - 15.01 Ableev 87D	⁴He Ag 13.32 (113.5) Avdejchikov 86	He C 16.8 (22.89) Baatar 90 Gulkanyan 88 Agakishiev 86B Armutlijsky 86C Balea 86 Simich 86 Agakishiev 84B Agakishiev 84E Armutlijsky 84 Ableev 86 Ableev 85 Anikina 86B Anikina 85	⁶He Be (282.5) Tanihata 85
³He 1.755 - 2.27 Yock 86	⁴He Ta 4.2 (174.1) Gulkanyan 88D 9.2 (178.2) Grigalashvil 88	17.9 (23.41) Ableev 86 18 (23.46) Anikina 86B Anikina 85	⁶He C 8.686 (19.69) Kobayashi 88 Tanihata 85
⁴He p 8.6 (5.688) Zielinsky 88 Glagolev 86B Zelinski 86 8.6 - 13.5 (5.688 - 6.407) Braun 89 Sobchak 88 Zelinski 88 Glagolev 87	⁴He ¹⁸¹Ta 0.4323 (172.4) Dubar 89	He Ne 18 (32.52) Anikina 86B Anikina 85	⁶He Al (489.1) Tanihata 85
⁴He ⁴He (104 - 126) Fredrikson 87 Tannenbaum 89 Fischer 88 Akeson 89 Akeson 88D	⁴He Au 3.373 - 16.82 (188.5 - 200) 8 (192.1) Avdejchikov 87B Avdejchikov 87F Avdejchikov 87H Budilov 90 13.32 (196.9) Avdejchikov 86 16.51 (199.7) Abashidze 85B 16.82 (200) Avdejchikov 87G	He Al 17.9 (39.56) Ableev 85 18 (39.62) Anikina 86B	⁶He nucleus 8.686 (16.59) Tanihata 86
⁴He He 18 (12.84) Avramenko 87	⁴He ¹⁹⁷Au 0.4323 (188.1) Dubar 89	He ²⁷Al 16.64 (38.78) Abashidze 84	⁶Li Be 8.686 (19.69) Tanihata 88 Tanihata 86
⁴He Li 18 (17.13) Abdurakhimov 88 Gadzicki 85	⁴He Pb 2.57 - 5.84 (197.5 - 199.9) Lhote 87	He ⁵⁴Fe 0.6659 - 0.9535 (54.08 - 54.14) Machner 85	⁶Li Al 8.686 (34.38) Tanihata 86
⁴He Be (230.7) Tanihata 85	5.838 (199.9) Lhote 89 17.8 (210.4) Averichev 89 19.24 (211.7) Adyasevich 85B	He ⁵⁸Ni 0.7259 - 1.031 (57.82 - 57.89) Machner 85 1.493 - 2.388 (58.02 - 58.41) Bonin 86	⁶Li ⁴⁰Ca 0.5397 (42.87) Machner 85
⁴He ¹⁰Bor 0.1309 (13.05) Baba 86	⁴He ²⁰⁸Pb 11.96 (205.9) Grabez 88	He ⁶¹Ni 0.6828 (60.61) Machner 85	Li nucleus 1205 Baroni 90
⁴He ¹²C 0.4323 (14.92) Dubar 89 2.65 - 4.52 (15.53 - 16.43) Ableev 89 17.94 (23.42) Kozma 89B	⁴He nucleus 4.5 Khan 89 16.8 Grishin 88B 18 Abdurakhimov 89C Avramenko 88 Anikina 86D	He Cu 17.9 (75.39) Ableev 85 18 (75.46) Anikina 86B Anikina 85	⁷Be Be 10.13 (17.76) Tanihata 86
⁴He C 2.57 - 5.84 (15.5 - 17.15) Lhote 87 4.2 (16.27) Gulkanyan 88D 4.5 (16.43) Abramyan 89 5.838 (17.15) Lhote 89 8 (18.34) Budilov 90 16.51 (22.76) Abashidze 85B 16.8 (22.89) Agakishiev 89B Angelov 88 Baldin 88C Grigalashvil 88 Mekhtiev 88 Pluta 88B Zielinsky 88 Akhbabian 85 18 (23.46) Abdurakhimov 88 19.24 (24.03) Adyasevich 85B (266.3) Tanihata 85	90.2 - 99 Antonchik 87 803.7 Baroni 90	He ⁶⁴Cu 16.64 (74.84) Abashidze 84	⁷Be Al 10.13 (35.78) Tanihata 86
	He p 7 (5.446) Banaigs 86 8.6 (5.69) Glagolev 86 16.8 (6.861) Armutlijsky 86B 17.7 (6.98) Bano 86 17.9 (7.007) Ableev 85 (62) Bell 85B (88) Fredriksson 87 Bell 86B Bell 85C	He ¹⁰⁸Ag 16.64 (116.5) Abashidze 85 Abashidze 84	⁷Li Be 18 (14.11) Avramenko 87
	He He 17.9 (12.81) Ableev 85 125.1 (31) Angelis 86 (124) Richard 87 Breakstone 85D Bell 86 Bell 86B Bell 85 Bell 85B Bell 85C (125) Fredriksson 87 Akeson 86F Lloydowen 86 Akeson 85B	He ¹¹⁶Sn 1.493 - 2.388 (112.1 - 112.5) Bonin 86	⁷Li Cu 10.13 (17.76) Tanihata 86
		He Ta 16.8 (185) Kutsidi 86	⁷Li Ag 10.13 (20.91) Tanihata 86
		He ¹⁹⁷Au 16.64 (200.7) Abashidze 85 Abashidze 84	⁷Li Al 10.13 (35.78) Tanihata 86
		He Pb 18 (210.6) Voronko 88 Anikina 86B	⁸He Be (326.1) Tanihata 85
			⁸He C 11.58 (22.11) Kobayashi 88 Tanihata 85
			⁸He Al (564.6) Tanihata 85
			⁸Li Be 11.58 (18.9) Tanihata 86

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

⁸ Li C 11.58 (22.11) Tanihata 86	¹¹ Be Al 15.93 (41.09) Tanihata 88	¹² C ⁸⁹ Yt 0.8196 - 2.607 (94.11 - 94.34) Dubar 89	¹² Bor Be 17.38 (23.29) Tanihata 88
⁸ Li Al 11.58 (37.14) Tanihata 86	¹¹ Be nucleus 16.06 Kobayashi 89C	¹² C Zr 54 (129.3) Anikina 86B	¹² Bor C 17.38 (26.7) Tanihata 88
⁸ Bor Be 11.58 (18.9) Tanihata 88	¹² Be Be 17.37 (23.29) Tanihata 88	¹² C Ag 53.83 (145.8) Kozma 90	¹² Bor Al 17.38 (42.37) Tanihata 88
⁸ Bor C 11.58 (22.11) Tanihata 88	¹² Be C 17.37 (26.69) Tanihata 88	¹² C ¹⁰⁸ Ag 53.83 (146) Kozma 90B	C P 50.4 (14.93) Bekmirzaev 88C Agakishiev 85
⁸ Bor Al 11.58 (37.14) Tanihata 88	¹² Be Al 17.37 (42.37) Tanihata 88	¹² C Sn 41.73 (148) Adyasevich 87B Adyasevich 85C	C C 4.2 (22.75) Gulkanyan 88D Lyubimov 88 Stock 87 17.52 (26.75) Hamagaki 85 26.75 - 53.22 (26.75 - 38.31) Schurman 87 27.6 (30.28) Grigalashvil 88 41.73 (34.89) Adyasevich 85 50.4 (37.49) Baatar 90 Agakishiev 89 Agakishiev 89B Agakishiev 89C Panagiotou 89 Angelov 88 Baldin 88C Bekmirzaev 88C Gulkanyan 88B Gulkanyan 88C Kanakarek 88 Mekhtiev 88 Pluta 88B Zielskiy 88 Armutlijsky 87C Grishin 87 Gulkanyan 87C Iovchev 87 Agakishiev 86B Armutlijsky 86B Armutlijsky 86C Bialkowska 86 Simich 86 Agakishiev 85 Ameev 85 Armutlijsky 85 Cheplovak 85 Agakishiev 84E Agakishiev 84E Armutlijsky 84 Anikina 85B
⁹ Li Be 13.03 (20.02) Tanihata 86	¹² C p 4.5 (12.19) Khan 89 51.99 (15.02) Bogdanov 88 54 (15.14) Khan 88 Gazdzicki 85	¹² C Ta 50.4 (214.3) Boldea 85 53.83 (217) Kozma 89	
⁹ Li C 13.03 (23.28) Tanihata 86	¹² C ¹² C 0.8196 - 2.607 (22.37 - 22.51) Dubar 89	¹² C ¹⁸¹ Ta 53.83 (217) Kozma 90B Damdinsuren 88	
⁹ Li Al 13.03 (38.48) Tanihata 86	¹² C Au 4.883 (22.86) Kristiansson 85 5.874 - 7.709 (23.07 - 23.53) Mernmaz 86	¹² C Au 25 (209.4) Hufner 85	
⁹ Li nucleus 13.14 Kobayashi 89C	¹² C Au 34.62 (32.61) Roche 84 50.76 (37.58) Bayman 87 53.83 (38.46) Kozma 89B	¹² C ¹⁹⁷ Au 53.83 (233.2) Kozma 90 Kozma 90B Damdinsuren 88B Kozma 88	
Be Be 13.04 (20.03) Tanihata 86	¹² C C 18 (26.91) Gazdzicki 85 41.73 (34.88) Adyasevich 87B Adyasevich 85C	¹² C Pb 34.62 (226.8) Roche 84 41.73 (232.5) Adyasevich 88B Lebedev 88 Adyasevich 87B Adyasevich 85C	
Be C 13.04 (23.29) Tanihata 86	¹² C Ne 50.4 (37.49) Grigalashvil 88 53.83 (38.48) Kurepin 88 54 (38.52) Anikina 89 Anikina 86B Anikina 85 Anikina 85C	53.83 (242.1) Damdinsuren 89 Kurepin 88 Krasnov 88 Anikina 86B Anikina 85 Anikina 85C	
Be Al 13.04 (38.49) Tanihata 86	¹² C Al 54 (50.5) Abdurakhimov 88 Anikina 86B Anikina 85 Gazdzicki 85	¹² C ²⁰⁸ Pb 5.874 - 7.709 (206.3 - 207.2) Mernmaz 86 11.42 - 34.62 (209.4 - 227.5) Hallman 85	
Be nucleus 1808 Baroni 90	¹² C Al 54 (59.4) Anikina 85C	¹² C ²³² Th 53.83 (265.7) Kozma 90B Kozma 89C	
¹⁰ Be Be 14.48 (21.13) Tanihata 86	¹² C ²⁷ Al 0.8196 - 2.607 (36.35 - 36.54) Dubar 89	¹² C ²³⁸ U 53.83 (271.4) Kozma 89C	
¹⁰ Be C 14.48 (24.44) Tanihata 86	¹² C Si 53.83 (59.35) Damdinsuren 87	¹² C U 53.83 (271.4) Kozma 90B	
¹⁰ Be Al 14.48 (39.8) Tanihata 86	¹² C Mn 54 (60.79) Anikina 86B	¹² C nucleus 4.5 Ghosh 90 Ghosh 89C Khan 89	
Bor nucleus 2010 Baroni 90	¹² C Ni 53.83 (91.52) Kozma 90B Kozma 88B	39.63 - 64.21 Abdurazakova 88 49.2 Andreeva 86B 50.4 Grishin 88B Shahbazyan 88	
¹¹ Bor C 16.06 (25.62) Kobayashi 89B	¹² C Al 53.83 (95.55) Kozma 88B	53.95 Bayman 87 54 Babaev 90 Ghosh 90B Ghosh 89D Ghosh 89	
¹¹ Li Be 15.92 (22.21) Kobayashi 89 Tanihata 86	¹² C ⁵⁹ Co 53.83 (95.86) Kozma 90B Kozma 88B	53.83 (271.4) Kozma 90B	
¹¹ Li C 15.92 (25.57) Kobayashi 89 Kobayashi 88 Tanihata 86	¹² C Cu 41.73 (93.51) Adyasevich 87B Adyasevich 85C Baldin 88 Kozma 88B Abdurakhimov 89 54 (100.8) Abdurakhimov 88 Anikina 86B Anikina 85 Anikina 85C	¹² C ²³⁸ U 53.83 (271.4) Kozma 90B	
¹¹ Li Al 15.92 (41.09) Kobayashi 89 Tanihata 86	¹² C Ni 53.83 (95.55) Kozma 88B	¹² C nucleus 4.5 Ghosh 90 Ghosh 89C Khan 89	
¹¹ Li Cu 15.92 (76.49) Kobayashi 89	¹² C ⁵⁹ Co 53.83 (95.86) Kozma 90B Kozma 88B	39.63 - 64.21 Abdurazakova 88 49.2 Andreeva 86B 50.4 Grishin 88B Shahbazyan 88	
¹¹ Li Pb 15.92 (211.3) Kobayashi 89 Kobayashi 88	¹² C Cu 41.73 (93.51) Adyasevich 87B Adyasevich 85C Baldin 88 Kozma 88B Abdurakhimov 89 54 (100.8) Abdurakhimov 88 Anikina 86B Anikina 85 Anikina 85C	53.95 Bayman 87 54 Babaev 90 Ghosh 90B Ghosh 89D Ghosh 89	
¹¹ Li nucleus 16.06 Kobayashi 89C	¹² C Ni 53.83 (95.55) Kozma 88B	53.83 (271.4) Kozma 90B	
¹¹ Be Be 15.93 (22.21) Tanihata 88	¹² C Cu 53.95 (100.8) Abdurakhimov 89 54 (100.8) Abdurakhimov 88 Anikina 86B Anikina 85 Anikina 85C	¹² C nucleus 4.5 Ghosh 90 Ghosh 89C Khan 89	
¹¹ Be C 15.93 (25.57) Tanihata 88	¹² C ⁶⁴ Cu 53.83 (101.2) Kozma 90B	39.63 - 64.21 Abdurazakova 88 49.2 Andreeva 86B 50.4 Grishin 88B Shahbazyan 88	

C Ta	Iovchev 87 Bialkowska 86 Kutsidi 86 Armutlijsky 85 Gasparyan 85 Jovchev 85 Gasparyan 84B	¹⁶O C	Otterlund 88B Sorensen 88 Albrecht 87 (268.9) Albrecht 89D Albrecht 88B Franz 88B Heck 88 Schmidt 88 Schmidt 87	¹⁶O Wt	Schukraft 88B	¹⁶O nucleus	Tannenbaum 88 Abbott 87 Tannenbaum 87 Adamovich 88E Adamovich 89D Barbier 88B Adamovich 88B Adamovich 88C Sengupta 89 Jain 90 Buschbeck 89 Holynski 89B Sengupta 89B Singh 89 Bamberger 88B Brechtmann 88B Sengupta 88 Singh 88 Ardito 87 Akesson 90 Baroni 90 Jain 90B Adamovich 89C Aoki 89 Holynski 89 Romano 89 Adamovich 88 Ramello 88 Singh 88B Stenlund 88 Tretyakova 88 Jain 87
C Pb	17.74 (213.2) Stock 87 41.73 (232.5) Adyasevich 89 Adyasevich 85 54 (242.2) Anikina 86C (> 2643) Anikina 85B Burnett 86	¹⁶O Ne	(192.9 - 348.4) .bdurakhimov 88 Anikina 86B Anikina 85 Gazdzicki 85 Pugh 88	¹⁶O Au	3.08 (199.7) Machner 85 14.5 (203.7) Tannenbaum 89 232 (345.2) Remsburg 88 Tannenbaum 88 Abbott 87 974.8 (625.8) Strobele 88 (625.8 - 1102) Bamberger 89 Albrecht 88 Bamberger 88B Lohner 88 Lund 88 Otterlund 88B Pugh 88 Sorensen 88 Vesztergombi 88 Albrecht 87 Albrecht 90C Albrecht 89D Albrecht 89M Bartke 89 London 89 Lund 89 Odyniec 89 Pugh 89 Albrecht 88B Bamberger 88 Franz 88B Heck 88 Humanic 88 Schmidt 88 Schmidt 87 Tannenbaum 87 Bamberger 86	246.5 248.1 - 974.8 248.1 - 3215 248.1 - 3216 974.8 974.8 - 3215	
C nucleus	11.42 - 38.39 Stock 87 23.01 Antonchik 90B 53.96 Okonov 88 2411 Baroni 90	¹⁶O Al	(223.3 - 403.1) Akesson 89B Tannenbaum 89 Akesson 88 Brechtmann 88B Corriveau 88 Odyniec 89 Barnes 88 Pugh 88	(1102)		3215	
¹³Bor Be	18.82 (24.35) Tanihata 88	¹⁶O ²⁷Al	0.946 (40.07) Dubar 89	¹⁶O ¹⁹⁷Au	(627.4 - 1104) Hill 88	O C	(148.9 - 268.9) Ritter 88
¹³Bor C	18.82 (27.8) Tanihata 88	¹⁶O Cu	14.5 (78.66) Tannenbaum 89 72 (111.5) Anikina 85 232 (176.8) Remsburg 88 Tannenbaum 88 Abbott 37 Tannenbaum 87 974.8 (345.2) Heck 88 (345.2 - 620) Albrecht 90C Albrecht 88 Bamberger 88 Brechtmann 88B Lund 88 Otterlund 88B Pugh 88 Sorensen 88 Albrecht 87 Odyniec 89 Sonderregger 88 Franz 88B Schmidt 88 Schmidt 87	¹⁶O Hg	231.5 (349) Shaw 87 974.8 - 1935 (632 - 870.8) Calloway 89	O Ne	70.95 (57.44) Stock 87 72 (57.77) Anikina 85B
¹³Bor Al	18.82 (43.63) Tanihata 88	¹⁴Nit Cu	3.863 (72.7) Beard 85B	¹⁶O Pb	72 (256.6) Anikina 86B (364.4 - 1131) Anikina 85 (643.3 - 1131) Hoffmann 88 Barnes 88 Brechtmann 88B Odyniec 89 Pugh 89 Tannenbaum 89 Bussiere 88 Gerbier 87 Tannenbaum 87 Bamberger 86	O Cu	(345.2 - 620) Ritter 88
¹⁴Bor Be	19.3 (25.1) Tanihata 88	¹⁴Nit nucleus	39.63 - 64.21 Abdurazakova 88 40.6 Babaev 90	¹⁶O ²³⁸U	974.8 (694) Sonderegger 88 (694 - 1214) Aleklett 87	O Ag	(454.1 - 810.2) Ritter 88
¹⁴Bor C	19.3 (28.55) Tanihata 88	Nit nucleus	2813 Baroni 90	¹⁶O U	(1215) Baglin 89 London 89 Sonderregger 89	O Au	(625.8 - 1102) Ritter 88
¹⁴Bor Al	19.3 (44.39) Tanihata 88	¹⁵Bor Be	20.76 (26.17) Tanihata 88	¹⁶O nucleus	7.761 - 3200 Bartke 89 14.5 Tannenbaum 89 43.94 - 3200 London 89 44.47 Judek 86 44.47 - 3215 Otterlund 88 46.15 Ghosh 89B Bayman 87 46.15 - 3215 Adamovich 90 Adamovich 89B Adamovich 89D Anikina 86D Avdejchikov 85 Antonchik 87 Rensburg 88	O Pb	70.95 (255.9) Stock 87 72 (256.6) Panagiotou 89 Anikina 85B
¹⁴Be C	20.27 (28.89) Tanihata 88	¹⁵Bor C	20.76 (29.65) Tanihata 88	¹⁶O ¹²C	10 (27.35) Hufner 85	O U	(1212) Abreu 89
¹⁴Nit Cu	3.863 (72.7) Beard 85B	¹⁵Bor Al	20.76 (45.64) Tanihata 88	¹⁶O p	46.15 (17.72) Bartke 89 62.76 (18.55) Glagolev 89 (45.3 - 79.09) Brechtmann 88B	O nucleus	30.67 Antonchik 90B 71.94 Okonov 88
¹⁴Nit nucleus	39.63 - 64.21 Abdurazakova 88 40.6 Babaev 90	¹⁶O Ag	974.8 (454.1) Heck 88 (454.1 - 810.2) Albrecht 90C Akesson 89B Tannenbaum 89 Akesson 88 Albrecht 88 Brechtmann 88B Corriveau 88 Lund 88 Otterlund 88B Sorensen 88 Albrecht 87 Odyniec 89 Franz 88B Pugh 88 Schmidt 88 Schmidt 87	¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹²C	79.8 (47.62) Grigalashvil 88
¹⁵Bor Be	20.76 (26.17) Tanihata 88	¹⁶O Wt	(602.9 - 1063) Akesson 89B Tannenbaum 89 Akesson 88 Corriveau 88 Akesson 89D Akesson 89E Bartels 88 Schukraft 88	¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88
¹⁵Bor C	20.76 (29.65) Tanihata 88			¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88
¹⁵Bor Al	20.76 (45.64) Tanihata 88			¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88
¹⁶O p	46.15 (17.72) Bartke 89 62.76 (18.55) Glagolev 89 (45.3 - 79.09) Brechtmann 88B			¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88
¹⁶O He	(86.63 - 155.6) Pugh 88			¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88
¹⁶O ¹²C	10 (27.35) Hufner 85			¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88
¹⁶O C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88			¹⁶O ¹⁰C	72 (44.64) Anikina 85 232 (74.49) Remsburg 88 (148.9 - 268.9) Tannenbaum 89 Albrecht 88 Brechtmann 88B Lohner 88 Lund 88	O ¹⁰C	76 (46.74) Golovin 88

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent to p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

¹⁹F1 Wt

¹⁹F1 Wt		²²Ne nucleus		Si Pb		³²S Pb	
76 (237.4) Golovin 88		Andreeva 89		305 (395.1) Braunmunzing 88		Akesson 88C	
¹⁹F1 Bi		Lepekhin 89		(6578) Burnett 86		Brechtmann 88	
76 (261.9) Golovin 88		Alekseeva 88		Burnett 85D		Price 88	
¹⁹F1 U		Andreeva 88		Si nucleus		Schukraft 88B	
76 (290) Golovin 88		Andreeva 88B		112 · 10 ³ Burnett 86		³²S U	
²⁰Ne Ne		Andreeva 88C		Burnett 85D		(1703)	
90 (64.45) Anikina 86B		Bannik 87		³²S p		Sonderegger 89	
²⁰Ne ²⁷Al		Elnaghy 87B		(31.42 - 113.8)		Tannenbaum 99	
1.058 - 3.357 (43.8 - 43.95) Dubar 89		Krasnov 87		Brechtmann 88		Akesson 88C	
²⁰Ne Zr		Andreeva 86		³²S C		Schukraft 88B	
90 (152.3) Anikina 86B		Krasnov 86		(46.71 - 380.6)		³²S nucleus	
²⁰Ne Ag		Shabratova 86		(46.71 - 380.6)		42.86 - 6430	
3.357 (119.4) Dubar 89		Vokalova 85		Brechtmann 88		6430	
²⁰Ne Th		Antonchik 87		³²S Al		Brechtmann 88	
8 (188.7) Hufner 85		Bayman 87		(70.35 - 569.8)		Akesson 90	
²⁰Ne Au		Vokal 88		464 (157.8) Brechtmann 88		Baroni 90	
7.6 (203.4) Hufner 85		Leskin 86		(569.8) Andersen 89		Jain 90B	
²⁰Ne ¹⁹⁷Au		Andreeva 85C		Tannenbaum 88		Adamovich 89	
3.842 - 3.881 (203.3 - 203.3) Machner 85		²⁴Mg Mg		Andersen 89		Buschbeck 89	
²⁰Ne nucleus		108 (77.5) Anikina 89		Akesson 88C		Holynski 89	
16.11 Aggarwal 85B		²⁴Mg nucleus		Price 88		Romano 89	
55.59 Shor 89		108 Ghosh 89D		Schukraft 88B		Sengupta 89B	
90 Anikina 86D		Karev 88		³²S ³²S		Singh 89	
Ne f₂(1270)		Veres 85		(619.1) Panagiotou 89		Sengupta 88	
29.28 (21.05) Gosset 89		Mg C		³²S S		Singh 88	
Ne Na		102 (54.55) Grigalashvil 88		(67.1.1) Odyniec 89		Singh 88B	
18.81 - 29.04 (44.15 - 47.87) Madey 85		Mg Pb		Pugh 89		Stenlund 88	
29.28 (47.96) Gosset 89		108 (283.5) Krasnov 88		³²S Fe		S U	
Ne Nb		Mg nucleus		(820.1) Andersen 89		(1699) Abreu 89	
29.28 (117.7) Gosset 89		79.82 Dubinina 88		³²S Cu		Ar Pb	
Ne Au		108 Ghosh 89		(111.7 - 875) Brechtmann 88		57.41 (255) Stock 87	
42 (225.6) Hufner 85		²⁸Si Al		464 (243.8) Tannenbaum 88		Burnett 85D	
Ne Pb		280 (124.3) Tannenbaum 89		(875) Andersen 89		Ar nucleus	
18.81 - 29.04 (218.8 - 225.7) Madey 85		²⁸Si ²⁸Si		Odyniec 89		45.35 - 98.68	
19.09 - 29.28 (219 - 225.9) Bastid 89		67.41 - 77.83 (71.63 - 75.12) Shor 89		Price 88		Lhote 89	
29.28 (225.9) Gosset 89		80.78 (76.08) Carroll 89		³²S Ag		Schurman 87	
57.81 (247.1) Schnetzer 89		Barasch 85		(146.5 - 1142) Brechtmann 88		57.41 - 100.8	
Ne U		²⁸Si Cu		(1142) Andersen 89		109 Jain 85	
19.09 (247.8) Schurman 87		280 (193.6) Tannenbaum 89		Odyniec 89		⁴⁰Ar C	
Ne nucleus		²⁸Si Ag		Schukraft 88B		8.1 (48.65) Hufner 85	
19.09 - 29.28 Bastid 89		406 (304.2) Tannenbaum 89		³²S Wt		⁴⁰Ar ⁴⁰Ar	
19.09 - 57.81 Schurman 87		²⁸Si Au		(1494) Abatzis 90		58.38 (89.09) Schurman 87	
29.28 Lhote 89		406 (428.5) Tannenbaum 89		Akesson 90		⁴⁰Ar Cu	
Stock 87		²⁸Si ¹⁹⁷Au		Akesson 89D		63.08 - 102.7 (116.5 - 133.5)	
38.44 Antonchik 90B		408 (430.6) Abbott 90		Akesson 89E		102.7 (133.5) Dersch 85	
57.81 Schnetzer 89		²⁸Si Pb		Tannenbaum 89		⁴⁰Ar ²⁰⁸Pb	
79.82 Dubinina 88		280 (382.7) Tannenbaum 89		Akesson 88C		102.7 (285.1) Hallman 85	
90.05 Okenov 88		²⁸Si nucleus		Schukraft 88B		⁴⁰Ar nucleus	
²²Ne p		4.5 Ameeva 89		³²S Pt		58.38 - 102.7 Stock 87	
88.55 (24.32) Bogdanov 88		114.8 Ameeva 87		(1540) Akesson 89D		67.68 - 76.69 Antonchik 90	
²²Ne ¹²C		126 Krasnov 88B		Akesson 89E		76.69 Antonchik 90B	
90.2 (51.12) Elnaghy 87B		406 London 89		Tannenbaum 89		102.7 Bhanja 85	
²²Ne nucleus		Si Al		Akesson 88C		102.7 - 111.2 Bayman 87	
4.1 Elnaghy 87		305 (129.3) Braunmunzing 88		Schukraft 88B		Ca Ca	
39.63 - 64.21 Abdurazakova 88		406 (147.5) Reimsberg 88		³²S Au		38.09 - 70 (82.38 - 93.34)	
54 Elnadi 88		Si Si		464 (452.9) Tannenbaum 88		Gustafsson 88	
90.2 Babaev 90		80.83 (76.25) Schurman 87		(1547) Adamovich 89		Doss 86	
		Stock 87		Odyniec 89		(92.53 - 107.5)	
		Si Cu		Heck 88		Roche 89	
		305 (201.1) Braunmunzing 88		Orterlund 88B		Roche 87	
		Si Au		Ritter 88		Naudet 88C	
		406 (428.5) Reimsberg 88		³²S Hg		Roche 88	
		431.4 (439.2) Miake 88		(1562) Calloway 89		Ca Pb	
				³²S Pb		(2786) Burnett 85D	
				(1588) Andersen 89		(5276) Burnett 86	
				Tannenbaum 89		Ca nucleus	
						600 - 8 · 10 ³ Gagarin 89	
						12 · 10 ³ Chernavskaya 87	
						4 · 10 ⁶ Burnett 86	
						48 · 10 ⁵ Burnett 85D	

Ti Pb

unspec

Ti Pb 1973 (895.1) Burnett 87 (4264) Burnett 86	¹³⁸La ¹³⁹La 73.05 - 202.9 (268.4 - 309.6) Miller 87 100.1 (275.6) Krebs 86 156.5 - 289.5 (293.5 - 340.1) Harris 87	hadron⁺ Pb 200 Akesson 88B charged nucleus 3 · 10 ³ - 5 · 10 ⁴ Dobrotin 85	nucleus 5 · 10 ⁸ - 2 · 10 ⁸ ? Inoue 85 Perelygin 85
Ti nucleus 1315 Burnett 87	¹³⁹La ¹⁹⁷Au 275.7 (403.8) Hill 88	charged > 10 ³ Grigorov 89C 10 ³ - 10 ⁵ Ivanenko 89	shower Pb > 300 Alibekov 85
⁴⁸Sc Be 9.2 (53.25) Hufner 85	¹³⁹La nucleus 266.5 Gill 90	frag nucleus < 90 Andreeva 86B	shower nucleus < 45 Judek 86
Va Pb (5384) Burnett 86	¹⁶⁸Ho ²⁰Ne 4.366 (172.3) Machner 85	fragb nucleus 4.5 Khan 89 < 148 Ohashi 86	shower 6 · 10 ⁵ Kirov 85 ? Kulikov 87 Nikolsky 85
Fe Pb (4612 - 6519) Burnett 85D	Au Au 108.2 - 251.8 (381.4 - 426.2) Doss 88 108.2 - 287.5 (381.4 - 438.7) Gustafsson 88 Doss 87 Doss 86 Gutbrod 89 Bock 89 Bock 89B	hadron p 6 - 2 · 10 ³ Prokoshkin 87C	unspec C 400 Dzhaoshvili 88B Dzhaoshvili 87
Fe nucleus 105.9 Antonchik 90B 153.4 Jain 85 825 - 11 · 10 ³ Gagarin 89 2970 Burnett 87	¹⁹⁷Au nucleus 332.7 Waddington 85	hadron C 100 - 2 · 10 ³ Dzhaoshvili 88	unspec Si ? Rich 87
Fe > 10 ⁷ Chilingarian 88	²³²Th ²³²Th 24.05 - 24.42 (432.9 - 432.9) Danzmann 89	hadron Pb 5 · 10 ³ - 10 ⁴ Kanevsky 85	unspec nucleus 5 - 5 · 10 ³ Asatiani 85 > 10 Vashkevich 88 > 100 Avakyan 85 100 - 500 Calicchio 87 100 - 5 · 10 ⁵ Bonnetbidaud 88 300 - 1600 Avakyan 85F > 10 ³ Oyama 86 10 ³ Marshak 85B 10 ³ - 10 ⁶ Battistoni 85 Marshak 85 Navia 88 2 · 10 ³ Berger 86C > 3 · 10 ³ Bar:lt 85 10 ⁴ - 10 ⁷ Bologna 85 > 25 · 10 ³ Borisov 85C > 5 · 10 ⁴ Dingus 88 > 10 ⁵ Borisov 85B < 10 ⁵ Alekseenko 86 < 10 ⁵ Krishnaswamy 86 10 ⁵ Castellina 85 10 ⁵ - 10 ⁶ Ren 88 Ren 88B Ren 88C 10 ⁵ - 10 ⁸ Bellotti 89E > 642 · 10 ³ Borisov 87B 10 ⁶ Gladysdzhiad 88 10 ⁶ - 10 ¹⁰ Dyakonov 89 5 · 10 ⁶ - 2 · 10 ⁶ Inoue 85 6 · 10 ⁶ - 2 · 10 ⁶ Inoue 85B > 2 · 10 ⁷ Borisov 85 10 ⁸ - 10 ¹¹ Krasinikov 85 Alibekov 85 ? Atrashkevich 85
⁵⁶Fe C 148.6 (79.81) Kim 86C	Th Th 0.0058 (432.3) Cowan 86	hadron > 10 ³ Avakyan 88B ? Nikolsky 85	
⁵⁶Fe Fe 137.8 (144.1) Chacon 88	Th Cm 0.0058 (463.1) Cowan 86	hypernucleus nucleus < 90 Andreeva 86B	
⁵⁶Fe Br 100.8 (158.6) Antonchik 85	²³⁸U ¹⁸¹Ta 24.93 - 25.99 (390.9 - 391) Bokemeyer 88 25.06 - 25.48 (390.9 - 390.9) Bokemeyer 89	longlived > 4.5 Yock 86	
⁵⁶Fe ¹⁰⁸Ag 100.8 (188.9) Antonchik 85	²³⁸U ²³²Th 24.89 - 25.31 (438.5 - 438.5) Danzmann 89 24.91 - 24.99 (438.5 - 438.5) Bokemeyer 88 Bokemeyer 88	monopole nucleon 0 Park 85B	
⁵⁶Fe ¹⁸⁷Au 79.64 (268) Bartke 89	U Pb 24.99 (415.4) Koenig 89	monopole ? Bellotti 89H Bartel 87 Aglietta 86B Battistoni 86C Musset 86	
⁵⁶Fe Pb 148.6 (317.4) Kim 86C	U Th 0.0058 (437.9) Cowan 86	nuclearite ? Liu 88B	
⁵⁶Fe nucleus 39.63 - 64.21 Abdurazakova 88 95.2 Drechsel 85 137.8 Mangotra 85 137.8 - 155.7 Bayman 87 140 Babaev 90 148.6 Ohashi 86 184.9 Azimov 85G	U U 24.99 (444.1) Bokemeyer 88 25.1 (444.1) Danzmann 89	nucleus Pb 960 - 3840 Burnett 87	unspec unspec 300 - 1600 Avakyan 85F > 7 · 10 ³ Altkofer 85 < 10 ⁴ Altkofer 85B
Kr Ag 23.87 (180.5) Bougault 90	U Cm (444.2) Davier 87	nucleus nucleus > 1 Budko 85B 4.2 - 50.4 Angelov 88 12 - 3200 Bartke 89 48 - 64 Agakishiev 89 960 - 3840 Burnett 87 > 10 ³ Burnett 86 10 ³ - 10 ⁵ Kawamura 89 4 · 10 ³ - 5 · 10 ³ Azimov 85B > 10 ⁵ Burnett 85 < 10 ⁹ Szabelski 86	unspec 10 ¹⁶ Krasinikov 85B
Kr Au 23.87 (264) Bougault 90	axion nucleus ? Depanflis 87	nucleus > 1 Budko 85B 1.8 - 2.8 Akopova 86 4 - 126 Bakatanov 85 10 ³ - 10 ⁵ Ivanenko 89 > 2 · 10 ³ Ivanenko 88B > 10 ⁵ Burnett 85	
Kr Th 23.87 (296.8) Bougault 90	neutral > 5 · 10 ⁵ Cassidy 89 Lawrence 89		
Kr nucleus 188.7 Jain 85	photino		
⁸⁴Kr nucleus 179.5 Cai 87 190.5 Bayman 87	pomeron pomeron (0.3 - 5) Breakstone 89B Breakstone 88C		
Nb Nb 50.78 - 118 (179.9 - 200.8) Doss 88 50.78 - 161.4 (179.9 - 216.1) Gustafsson 88 Doss 86 118 (200.8) Bock 89 Bock 89B	La La < 100 Ferdereau 89B 10 ³ - 10 ⁶ Fayet 89 ? Schwartz 88		
La La 155.8 - 288 (293.1 - 339.4) Lhote 89			
¹³⁹La C 266.5 (153.4) Brady 88			

Entries in order of beam mass, then target mass, then beam momentum. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names. (See the Particle Vocabulary.) Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given. See the legend on page 123.

This index lists papers by entire reactions, including beam, target, final state, and beam momentum. The ordering is by beam mass, then target mass, then multiplicity of the final state. By "multiplicity" we mean the number of separate particle *names* that appear. A name like "vees," "X," or " π^- 's," which can refer to an unspecified number of real particles, only counts as one name. Names like "0 ν 's" also count as one name.

The beam momentum is the equivalent lab momentum in GeV/c. For most colliding beam experiments and for reactions above 2 TeV/c equivalent lab momentum, we give instead the c.m. energy E_{cm} , in GeV. The c.m. energies are distinguished from lab momenta by being enclosed in parentheses. For a given beam momentum, ID's are ordered by year (most recent to oldest), then author name.

When a range of momenta were studied, we list the lower and upper ends of the range, e.g. "50 - 70," ordered by the lower end. For some experiments, such as neutrino experiments, the listed range is only approximate.

A question mark means that information is not available, usually because it was not given in the paper.

Illustrative Key

Initial State of the Reaction: see the *Particle Vocabulary* for nomenclature.

Final State of the Reaction: see the *Particle Vocabulary* for nomenclature.

Document ID: see the *ID/Reference/Title Index* for the full reference.

Lab Momentum: in GeV/c or, if in parentheses, the c.m. energy E_{cm} , in GeV.

Data Descriptor: brief description of the data measured; see the *Data Descriptor Vocabulary* for nomenclature.

γp			
$J/\psi X$			
80 - 190	Sokoloff 86		cs
$D^\pm X$			
20	Butler 86		-
$D_s^- X$			
100 - 260	Anjos 89B		cs
$D_s^+ X$			
100 - 260	Anjos 89B		cs
	Anjos 87C		-
$D^*(2010)^0 X$			
20	Abe 86		cs
$\bar{D}^*(2010)^0 X$			
20	Abe 86		cs
$D^*(2010)^+ X$			
20	Abe 86		cs
(40 - 160)	Sliwa 83		
		angp, cs, pt	
$D^*(2010)^- X$			
20	Abe 86		cs

$\gamma \gamma \rightarrow X$ $\gamma \gamma \rightarrow$ hadron (hadrons)

$\gamma \gamma$	$\gamma \gamma$	$\gamma \gamma$	$\gamma \gamma$
X	(1-6) Levy 88 cs (2-20) Fergner 87B cs (3-9) Aihara 89C cs	$f_4(2050)$ Althoff 85D	$\rho^+ \rho^-$ Feindt 89 cs
neutral	Blinov 86B	$f_4(2220)$ Behrend 89E cs Berger 88	$2\rho^0$ (1-3,2) Berger 88B ang. angp. cs (1-3,5) Levy 88 cs (1,2-2) Berger 87B angp. angp. cs (1,2-2,4) Berger 87B cs (1,2-3,6) Aihara 88 angp. cs (1,4-1,6) Aihara 88 ang. angp. cs (1,5-2) Liu 88
π^0	Albrow 88 Bienlein 88 Kolanoski 87 Lowe 86B cs	$\eta_c(15)$ Braunschweig 89 Chen 89C Jensen 89 Aihara 88 Barlow 87 Kolanoski 87 cs Berger 86 cs Althoff 85D	$\omega \rho$ Kolanoski 87 cs
η	Albrow 88 Bienlein 88 Kolanoski 87 Lowe 86B cs	$J/\psi(1S)$ Albrow 88	$\omega \rho^0$ (1-3,5) Levy 88 cs (1,1-2,4) Albrecht 87J angp. cs. pwa. cs
$f_0(700)$	Courau 86 Berger 85C	$\chi_{c0}(1P)$ Chen 89C	2ω (1-2,5) Berger 85D cs
η'	Feindt 89 cs Albrow 88 Bienlein 88 Albrecht 87M cs Antreasyan 87 Blinov 87C Kolanoski 87 cs Lowe 86B Landsberg 85 p	$\chi_{c2}(1P)$ Chen 89C	charged X (1,2-10) Berger 87B pt mult[charged] (neutrals) (1,2-10) Berger 87B mult charged+ charged- (< 0.1732) Ajaltouni 87 cs
$f_0(975)$	Bienlein 88 Kolanoski 87 cs	$D^*(2010)^+ X$ Kolanoski 87 cs	$\phi \rho^0$ (1-3,5) Levy 88 cs (1,6-3,6) Albrecht 87S cs (2,5-5) Althoff 86D cs
$a_0(980)^0$	Bienlein 88 Kolanoski 87 cs	$D^*(2010)^- X$ Kolanoski 87 cs	$\phi \omega$ (1-3,5) Levy 88 cs (1,9-3,4) Albrecht 88L cs
$f_2(1270)$	Adachi 90 Feindt 89 cs Berger 88 cs Bienlein 88 Kolanoski 87 cs Aihara 86D Althoff 85D	$D^*(2010)^{\pm} X$ Braunschweig 90B cs Charm X Braunschweig 90B cs hadron X Roberts 86 angp. cs. p. pt (1-20)	2ϕ (1-3,5) Levy 88 cs (1,9-3,4) Albrecht 88L cs (2,5-5) Althoff 86D cs $K^+ K^-$ (0,5-2) Aihara 86D angp. cs (1-2,5) Albrecht 89K cs (1,5-3,5) Berger 87B cs
$f_1(1285)$	Feindt 89 cs	jet X Roberts 86 angp. cs. p. pt (1-20)	$K^+ K^- + \pi^+ \pi^-$ (1,5-3,5) Berger 87B cs Boyer 86 angp. mass
$a_2(1320)$	Berger 88 cs	$e^- e^+$ (0,1-0,9) Ajaltouni 87 cs (0,1-1) Courau 86 cs (0,3-0,7) Ajaltouni 85B cs (< 36,5) Bartel 86C ang. mass. p	$K^*(892)^0 \bar{K}^*(892)^0$ (1-3,5) Levy 88 cs (1,6-3,6) Albrecht 87S cs (1,8-4) Aihara 88 cs (2,5-5) Althoff 86D cs Kolanoski 87 cs Aihara 85D
$a_2(1320)^0$	Behrend 89G Feindt 89 cs Bienlein 88 Blinov 87C Kolanoski 87 cs Althoff 86 Althoff 85D	$\mu^- \mu^+$ (0,1-0,9) Ajaltouni 87 cs (0,1-1) Ajaltouni 85B cs (0,15-0,8) Courau 86 cs (0,3-1,75) Berger 85C cs (< 36,5) Bartel 86C ang. mass. p	$K^*(892)^+ K^*(892)^-$ (1-3,5) Levy 88 cs (1,5-2,7) Albrecht 88N cs
$f_0(1400)$	Bienlein 88	$2\pi^0$ Marsiske 90 Bienlein 88 mass Lowe 86B	$2K_S$ (1-2,5) Althoff 85D cs (1-3) Berger 88 mass
$f_1(1420)$	Feindt 89 cs	$\pi^+ \pi^-$ (0,1-0,9) Ajaltouni 87 cs (0,3-0,7) Courau 86 cs Ajaltouni 85B cs Berger 87B cs Berger 85C cs angp. cs. mass. pt Aihara 86D angp. cs Berger 87B cs	$p \bar{p}$ (2-2,6) Bartel 86E angp. cs Kolanoski 86 angp. cs Aihara 87E angp. cs. pt Berger 87B angp. cs Albrecht 88R angp. cs (2,25-2,6) Bartel 86B angp. cs Barlow 87
$f_2'(1525)$	Feindt 89 Berger 88 cs Kolanoski 87 cs Althoff 85D	$\eta \pi^0$ (0,6-2,2) Antreasyan 86 angp. cs Bienlein 88 mass	$\Delta(1232 P_{33})^{++} \bar{\Delta}(1232 P_{33})^{--}$ (2,5-4) Albrecht 88R cs (2,5-5,5) Aihara 89 cs
$\pi_2(1670)^0$	Behrend 89G Feindt 89 cs Bienlein 88	$2p$ Kolanoski 87 angp. cs	$\Delta(1232 P_{33})^0 \bar{\Delta}(1232 P_{33})^0$ (2,5-4) Albrecht 88R cs (2,5-5,5) Aihara 89 cs
$f_2(1720)$	Behrend 88E Berger 88 cs Althoff 85D	$\rho^+ \rho^-$ (0,7-3,4) Albrecht 89F cs (1-3,5) Levy 88 cs (1,35-2,85) Behrend 89 cs	$\Lambda \bar{\Lambda}$ (2,5-4) Albrecht 88R cs hadron (hadrons) (1-4) Blinov 85E cs Kolanoski 87 cs. mass

$\gamma\gamma \rightarrow q\bar{q}$

$\gamma p \rightarrow \Xi^+ X$

$\gamma\gamma$	$\gamma\gamma$	γp
$q\bar{q}$ (< 34.7) Berger 85H	$2\pi^+ 2\pi^-$ (1.2 - 2.4) Berger 87B	ϕX $2^0 - 70$ Atkinson 85B
$2jet$ (< 34.7) Berger 85H Kolanoski 86	(1.2 - 3.6) Aihara 88	$\rho(1700)^0 X$ $75 - 148$ Chapin 85
$2\pi^+ X$ (5) Juricic 88	$\omega \pi^+ \pi^0 \pi^-$ (1.4 - 3.5) Albrecht 87K	$J/\psi(1S) X$ $35 - 185$ Barate 86C
$2\pi^- X$ (5) Juricic 88	$2\rho 2\pi$ (1.2 - 2.4) Berger 87B	$60 - 200$ Aubert 84C
$D^0 \bar{D}^0 X$? Braunschweig 90B	$K^+ K^- \pi^+ \pi^-$ (1.5 - 3.7) Berger 87B	$80 - 190$ Sokoloff 86
$3\pi^0$? Bienlein 88	(1.6 - 3.6) Albrecht 87S	$D^0 X$ 20 Butler 86
$\pi^+ \pi^0 \pi^-$? Behrend 89G	(1.8 - 3.6) Aihara 88	$\bar{D}^0 X$ 20 Butler 86
$\eta 2\pi^0$? Bienlein 88	(1.8 - 4) Aihara 88	$D^\pm X$ 20 Butler 86
$\rho^+ \pi^0 \pi^- + \rho^- \pi^+ \pi^0$ (0.7 - 3.4) Albrecht 89F	(2.5 - 5) Barlow 87	$D^+ X$ 20 Abe 86
$\rho^0 \pi^+ \pi^-$ (1 - 3.2) Berger 88B	Aihara 85D	$80 - 230$ Anjos 89B
(1 - 3.5) Levy 88	$2K^+ 2K^-$ (1.9 - 3.4) Albrecht 88L	$D^- X$ 20 Abe 86
(1.2 - 3.6) Aihara 88	(3 - 5) Aihara 88	$D^- X$ 20 Abe 86
$\phi \pi^+ \pi^-$ (1.6 - 3.6) Albrecht 87S	$K^+ K_S \pi^0 \pi^-$ (1.5 - 2.7) Albrecht 88N	$D_S^- X$ 80 - 230 Anjos 89B
(1.7 - 3.7) Aihara 85D	$K_S K^- \pi^+ \pi^-$ (1.5 - 2.7) Albrecht 88N	$D_S^+ X$ 80 - 230 Anjos 89B
(1.8 - 4) Aihara 88	$2K_S \pi^+ \pi^-$ (1.5 - 2.7) Albrecht 88N	$D^*(2010)^0 X$ 20 Abe 86
(2.5 - 5) Althoff 86D	$p \bar{p} \pi^+ \pi^-$ (2 - 2.8) Aihara 87E	$\bar{D}^*(2010)^0 X$ 20 Abe 86
$K^*(892)^0 K^- \pi^+$ (1.6 - 3.6) Albrecht 87S	(2.5 - 4) Albrecht 88R	$D^*(2010)^+ X$ 20 Abe 86
(2.5 - 5) Althoff 86D	Aihara 89	40 - 160 Sliwa 83
? Aihara 85D	$2\pi^+ \pi^0 2\pi^-$ (1 - 3.3) Albrecht 87J	$D^*(2010)^- X$ 20 Abe 86
$\bar{K}^*(892)^0 K^+ \pi^-$ (1.6 - 3.6) Albrecht 87S	(1.5 - 4) Berger 87B	$K^*(892)^0 X$ 20 - 70 Atkinson 85B
(2.5 - 5) Althoff 86D	(1.6 - 2.5) Berger 85D	$\bar{K}^*(892)^0 X$ 20 - 70 Atkinson 85B
? Aihara 85D	$K^+ K^- \pi^+ \pi^0 \pi^-$ (1.9 - 3.4) Albrecht 88L	$K_2^*(1430)^0 X$ 20 - 70 Atkinson 85B
$K^*(892)^0 K^- \pi^+ + \bar{K}^*(892)^0 K^+ \pi^-$ (1.8 - 4) Aihara 88	$p \bar{p} \pi^+ \pi^0 \pi^-$ (2.5 - 4) Albrecht 88R	$K_2^*(1430)^0 X$ 20 - 70 Atkinson 85B
$K^+ K_S \pi^-$ (1.2 - 3.5) Althoff 85D	$2\pi^+ 2\pi^- neutral (neutrals)$ (1.6 - 2.5) Berger 85D	$K^\pm X$ 100 - 170 Holzkamp 88
(1.3 - 3.4) Berger 86	$2\pi^+ 2\pi^0 2\pi^-$ (1.4 - 3.5) Albrecht 87K	$K_S X$ 20 Abe 85B
$K_S K^- \pi^+$ (1.2 - 3.5) Althoff 85D	$3\pi^+ 3\pi^-$ (1 - 7) Levy 88	$p X$ $75 - 148$ Chapin 85
(1.3 - 3.4) Berger 86		$\Lambda^+ X$ $40 - 160$ Sliwa 83
$K^+ K_S \pi^- + K_S K^- \pi^+$ (1.25 - 2.5) Aihara 86C		$\bar{\Lambda} X$ 20 Abe 85B
$p \bar{p} \pi^0$ (2 - 2.9) Albrecht 88R	$\gamma \pi^-$ $0.11 - 0.59$ Antipov 86D	$\Lambda X + K^0 X$ 20 Butler 86
$p \bar{\Delta}(1232 P_{33})^{--} \pi^+ + \bar{p} \Delta(1232 P_{33})^{++} \pi^-$ (2.5 - 3.5) Albrecht 88R	$\pi^0 \pi^-$ $0.2526 - 0.5034$ Antipov 86 Antipov 86B Antipov 85C	$\Sigma^0 X$ 20 Abe 85B
(jets) $2jet$ (1 - 20) Roberts 86		$\Sigma(1385 P_{13})^+ X$ 20 Abe 85B
(< 34.5) Berger 87	γp	$\Sigma(1385 P_{13})^- X$ 20 Abe 85B
Kolanoski 87	X $6 - 200$ Prokoshkin 87C	$\Xi^- X$ 20 Abe 85B
2hadron (hadrons) (0.5 - 4.5) Baru 86	charged X 20 Butler 86	$\Xi^+ X$ 20 Abe 85B
(1 - 20) Roberts 86	50 - 70 Atkinson 85E	
(2 - 20) Bintinger 85	65 - 175 Apsimon 89	
$3\pi^+ X$ (5) Juricic 88	mult[charged] X 20 Abe 86	
$3\pi^- X$ (5) Juricic 88	neutral X 20 Butler 86	
$\pi^+ 2\pi^0 \pi^-$ (0.7 - 3.4) Albrecht 89F	mult[charged] (neutrals) 50 - 70 Atkinson 85E	
(1.35 - 2.85) Behrend 89	γX 50 - 150 Auge 86B	
$2\pi^+ 2\pi^-$ (1 - 3.2) Berger 88B	$\pi^\pm X$ 100 - 170 Holzkamp 88	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c. or in parentheses E_{cm} in GeV. See the legend on page 153.

$\gamma p \rightarrow \Omega^- X$ $\gamma p \rightarrow p K^+ K^-$

γp		γp		γp	
$\Omega^- X$		ΛK^+		$\Lambda_c^+ \bar{D}^0 X$	
20	Abe 85B	1.1 - 1.3	Meyer 88B	20 - 70	Adamovich 86B
charm X			amp. asym. pwa		ang. cs, p, pt
20	Butler 86	$\Lambda(1520 D_{03}) K^+$		$\Lambda_c^+ D^- X$	
20 - 70	Adamovich 86B	2.9 - 4.7	Dainton 85	20 - 70	Adamovich 86B
35 - 185	Barate 86C	p meson⁰			ang. cs, p, pt
axion X		4.9 - 6.6	Bodenkamp 85	$\Lambda \gamma X$	
20	Ackleh 89	20 - 70	Atkinson 86	20	Abe 85B
bottom X			Atkinson 86B	$\Lambda \pi^+ X$	
35 - 185	Barate 86C		Atkinson 85D	20	Abe 85B
hadron X				$\Lambda \pi^- X$	
65 - 175	Rotscheidt 88	DD < $\eta \pi^+ \pi^-$ > p		20	Abe 85B
		20 - 70	Atkinson 85C	$\bar{\Lambda} \pi^+ X$	
jet X			angp. cs, mass, pwa	20	Abe 85B
50 - 70	Atkinson 85E	charged (charged_s) (neutrals)		$\Lambda K^- X$	
DD < ϕ > X		65 - 175	Apsimon 90	20	Abe 85B
20 - 70	Atkinson 85B	$\mu^- \mu^+ X$		$\Lambda_c^+ \text{ charmed-meson X}$	
p γ		80 - 190	Sokoloff 86	20	Abe 86
0.9 - 1.15	Ishii 85	$\eta \pi^+ X$		$\Lambda K_S X$	
p π^0		80 - 230	Anjos 89B	20	Abe 85B
0.137 - 0.155	Argan 88	$\omega \pi^+ X$		$\bar{\Lambda} K_S X$	
0.147 - 0.152	Mazzucato 86	80 - 230	Anjos 89B	20	Abe 85B
0.45 - 0.7	Bratashevsky 86C	$\phi \pi^+ X$		p ΛX	
0.58 - 1.26	Bratashevsky 85B	80 - 230	Anjos 87C	40 - 160	Kennett 87B
0.7 - 1.6	Bagdasaryan 90	145	Anjos 90C		angp. cs
0.73 - 1.066	Avakyan 88C	D⁰ $\pi^+ X$		p $\bar{\Lambda} X$	
0.768 - 1.192	Bratashevsky 87	20	Abe 86	40 - 160	Kennett 87B
		20 - 70	Adamovich 86B	p $\Lambda X + p \bar{\Lambda} X$	
0.9 - 1.35	Agababyan 89B	D⁰ $\pi^- X$		40 - 160	Kennett 87B
0.9 - 1.5	Asaturyan 86C	20 - 70	Abe 86	$\Lambda \bar{\Lambda} X$	
0.9 - 1.65	Sirunyan 88		Adamovich 86B	20	Abe 85B
1 - 1.1	Meyer 88B			p $\Xi^- X$	
1 - 10	Avakyan 87B			40 - 160	Kennett 87B
1.125 - 1.3	Bratashevsky 85	D⁰ $\bar{D}^0 X$		p $\Xi^+ X$	
n π^+		20 - 70	Abe 86	40 - 160	Kennett 87B
0.32	Belyaev 86		Adamovich 86B	p $\Xi^- X + p \Xi^+ X$	
0.7 - 0.85	Meyer 88B			40 - 160	Kennett 87B
0.9 - 1.65	Sirunyan 88	D⁺ $\bar{D}^0 X$		60 - 170	Korsgen 88
$\Delta(1232 P_{33})^{++} \pi^-$		20 - 70	Adamovich 86B	meson mult[charged] (neutrals)	
3.5	Dainton 85			20	Odell 86
p η				p charged⁺ charged⁻	
1.39 - 1.8	Sirunyan 88	D⁰ D⁻ X		20	
p ρ		20	Abe 86	n $\pi^+ \pi^0$	
20	Brau 88	20 - 70	Adamovich 86B	0.38 - 0.7	Aibergenov 86
p ρ^0					angp
6 - 200	Pokoshkin 87C	D_S⁺ D⁻ X		p $\pi^+ \pi^-$	
20	Odell 86	20 - 70	Adamovich 86B	1.44 - 4.7	Dainton 85
60 - 170	Soldnerrembo 87			2.8 - 4.8	Dainton 85
65 - 175	Dieter 89	D[*](2010)⁰ $\bar{D}^0 X$		60 - 170	Soldnerrembo 87
p ω		20	Abe 86	65 - 175	Dieter 89
3.5 - 4.7	Dainton 85	D[*](2010)⁺ $\bar{D}^0 X$		p $\omega \pi^0$	
60 - 225	Busennitz 89	20	Abe 86	20	Brau 88
p ϕ				p $\rho^0 \eta$	
2.8 - 4.8	Dainton 85	K⁺ $\pi^- X$		20 - 70	Atkinson 86
35 - 165	Busennitz 89	20 - 70	Atkinson 85B		Atkinson 85C
p b₁(1235)⁰		K⁻ $\pi^+ X$		p $\omega \eta$	
20	Brau 88	20 - 70	Atkinson 85B	20 - 70	Atkinson 86
p $\omega_3(1670)$		K⁺ ϕX		p b₁(1235)⁺ π^-	
20 - 70	Atkinson 86B	20 - 70	Atkinson 85B	20 - 70	Atkinson 86B
p $\phi(1680)$		K⁻ ϕX		p b₁(1235)⁻ π^+	
20 - 70	Atkinson 85D	20 - 70	Atkinson 85B	20 - 70	Atkinson 86B
	Atkinson 85F	K⁺ K⁻ X		p a₂(1320)⁺ π^-	
p $\rho_3(1690)^0$		20 - 70	Atkinson 85B	20 - 70	Atkinson 85C
20 - 70	Atkinson 85C	K⁻(892)⁰ K⁺ X			cs, mass, pwa
p $\rho(1700)^0$		80 - 230	Anjos 87C	p a₂(1320)⁻ π^+	
20 - 70	Atkinson 85C	2K_S X		20 - 70	Atkinson 85C
60 - 170	Atkinson 84F	20	Abe 85B		cs, mass, pwa
p J/ψ(1S)		p mult[charged] X		p K⁺ K⁻	
80 - 190	Sokoloff 86	75 - 148	Chapin 85	2.8 - 4.7	Dainton 85
p baryonium		$\Lambda_c^+ \pi^+ X$		2.8 - 4.8	Dainton 85
4.9 - 6.6	Bodenkamp 85	20 - 70	Adamovich 86B	20 - 70	Atkinson 85D
					ang. cs, mass

$\gamma p \rightarrow p K^+ K^-$

γ nucleon $\rightarrow \Lambda 2\pi^+ \pi^- X$

γp		γp		γ nucleon	
$p K^+ K^-$		$n 2\pi^+ \pi^-$ (neutrals)		$D_S^- X$	
35 - 165	Busennitz 89	1.44 - 4.7	Dainton 85	50 - 150	Wormser 89
$2p \bar{p}$		$p \pi^+ \pi^- 2\gamma$		$D_S^+ X$	
4.7	Dainton 85	60 - 225	Busennitz 89	50 - 150	Alvarez 90
4.9 - 6.6	Bodenkamp 85	$p \pi^+ 2\pi^0 \pi^-$			Alvarez 90C
60 - 225	Busennitz 89	20 - 70	Brau 88		Wormser 89
K_S hadron (hadrons)			Atkinson 84F		Roudeau 88
40 - 170	Bhadra 85	$p 2\pi^+ 2\pi^-$		100	Wormser 89B
Λ hadron (hadrons)		2.8 - 4.7	Dainton 85	$D^*(2010)^+ X$	
40 - 170	Bhadra 85	15 - 20	Abe 85	50 - 150	Wormser 89
2 hadron (hadrons)		$p \eta \pi^+ \pi^0 \pi^-$		$D_1(2420)^0 X + \bar{D}_1(2420)^0 X$	
0.3 - 30	Dainton 85	20 - 70	Atkinson 86	50 - 150	Roudeau 88
40 - 170	Bhadra 85	$p \rho^0 \pi^+ \pi^0 \pi^-$		charmed-meson X	
$\phi e^+ \nu_e X$		20 - 70	Atkinson 88	50 - 150	Wormser 89
145	Anjos 90C	$p \rho^+ \pi^+ 2\pi^-$			Roudeau 88
$\phi \pi^+ \pi^0 X$		20 - 70	Atkinson 88	charmed-meson X	
80 - 230	Anjos 89B	$p \rho^- 2\pi^+ \pi^-$		50 - 150	Wormser 89
$K^+ K^- \pi^+ X$		20 - 70	Atkinson 88		Roudeau 88
80 - 230	Anjos 87C	$p \omega \pi^+ \pi^0 \pi^-$		$\Lambda_c^+ X$	
$K^+ 2K^- X$		20 - 70	Atkinson 85	20 - 70	Klein 89C
20 - 70	Atkinson 85B	$p K^+ K^- \pi^+ \pi^-$		50 - 150	Alvarez 90
$2K^+ K^- X$		2.8 - 4.7	Dainton 85		Alvarez 90B
20 - 70	Atkinson 85B	20 - 70	Atkinson 85F		Wormser 89
$p \pi^+ \pi^- X$			ang. cs. mass	80 - 230	Roudeau 88
20	Brau 88	$p 2\pi^+ 2\pi^-$ (neutrals)			Anjos 89C
$p \bar{p} \pi^+ X$		2.8 - 4.7	Dainton 85	$\bar{\Lambda}_c^- X$	
40 - 160	Kennett 87B	$p 2\pi^+ \pi^0 2\pi^-$		50 - 150	Alvarez 90B
$2p \pi^- X$		2.8 - 4.7	Dainton 85	80 - 230	Anjos 89C
40 - 160	Kennett 87B	20 - 70	Atkinson 88	charm X	
$p \pi^+ \pi^-$ (neutrals)		$n 3\pi^+ 2\pi^-$		145	Purohit 88
1.44 - 4.7	Dainton 85	2.8 - 4.7	Dainton 85	nucleon ϕ	
$p \pi^+ \pi^0 \pi^-$		$n 3\pi^+ 2\pi^-$ (neutrals)		45 - 85	Busennitz 89
1.44 - 4.7	Dainton 85	2.8 - 4.7	Dainton 85	nucleon $\chi_{c1}(1P)$	
60 - 225	Busennitz 89	$p \pi^+ \pi^- 4\gamma$		50 - 150	Barate 86B
$n 2\pi^+ \pi^-$		20 - 70	Atkinson 86	nucleon $\chi_{c2}(1P)$	
1.44 - 4.7	Dainton 85	$p 3\pi^+ 3\pi^-$		50 - 150	Barate 86B
$p \eta \pi^+ \pi^-$		2.8 - 4.7	Dainton 85	$D^0 \gamma X$	
20 - 70	Atkinson 85C	$p 3\pi^+ 3\pi^-$ (neutrals)		100	Wormser 89B
angp. cs. mass, pwa		4.7	Dainton 85	$D^0 \bar{D}^0 X$	
$p \omega \pi^+ \pi^-$		$p 3\pi^+ \pi^0 3\pi^-$		20 - 70	Adamovich 86E
20 - 70	Atkinson 86B	$n 4\pi^+ 3\pi^-$ (neutrals)		$D^+ D^- X$	
$p \phi \pi^+ \pi^-$		4.7	Dainton 85	20 - 70	Adamovich 86E
20 - 70	Atkinson 85F	$n 4\pi^+ \pi^0 3\pi^-$		$K^- \pi^+ X$	
$p 2\rho^0 \pi^0$		4.7	Dainton 85	50 - 150	Alvarez 90
20 - 70	Atkinson 88	γn			Alvarez 90C
$p \rho^+ \rho^0 \pi^-$		$p \pi^-$		100	Wormser 89B
20 - 70	Atkinson 88	0.5 - 2.2	Meyer 88B	$\Lambda_c^+ \bar{D}^0 X$	
$p \rho^0 \rho^- \pi^+$		0.7 - 0.85	Meyer 89B	20 - 70	Adamovich 86E
20 - 70	Atkinson 85	0.9 - 1.65	Adamyam 84C	$\Lambda_c^+ D^- X$	
$p K^+(892)^0 K^- \pi^+$		γ nucleon		20 - 70	Adamovich 86E
20 - 70	Atkinson 85F	$\pi^0 X$		charm $\bar{\text{charm}} X$	
$p \bar{K}^+(892)^0 K^+ \pi^-$		50 - 150	Auge 86	40 - 240	Aubert 86C
20 - 70	Atkinson 85F	$\pi^+ X$		50 - 150	Wormser 89
$DD < \rho^0 > p \pi^+ \pi^-$		50 - 150	Barate 86	80 - 170	Roudeau 88
15 - 20	Abe 85	$\pi^- X$			Roudeau 88
$\bar{\Lambda} 2$ hadron (hadrons)		50 - 150	Barate 86	cs. pt	Arneodo 86F
40 - 170	Bhadra 85	$D^0 X$		100	Wormser 89B
$2\pi^+ \pi^0 \pi^- X$		50 - 150	Alvarez 90	$K^- \pi^+ \pi^0 X$	
80 - 230	Anjos 89B		Alvarez 90C	100	Wormser 89B
$K^+ K^- \pi^+ \pi^0 X$			Wormser 89	$K^- 2\pi^+ X$	
80 - 230	Anjos 89B		Roudeau 88	50 - 150	Alvarez 90C
$p \pi^+ \pi^0 \pi^- X$			Wormser 89B	$p K^- \pi^+ X$	
20	Brau 88			50 - 150	Alvarez 90
$p \bar{p} 2\pi^+ X$					Alvarez 90B
40 - 160	Kennett 87B			$\bar{p} K^+ \pi^- X$	
$2p 2\pi^- X$				50 - 150	Alvarez 90B
40 - 160	Kennett 87B			$K^+ K^- \pi^+ X$	
				50 - 150	Alvarez 90C
				$p K^- \pi^+ X$	
				50 - 150	Alvarez 90
					Alvarez 90B
				$\Lambda 2\pi^+ \pi^- X$	
				80 - 230	Anjos 89C

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

γ nucleon $\rightarrow p \bar{K}^0 \pi^+ \pi^- X$ γ Be $\rightarrow D^*(2010)^- X$

γ nucleon	γ ^3He	γ Li
$p \bar{K}^0 \pi^+ \pi^- X$ 80 - 230 Anjos 89C mass	$2p n$ 0.275 - 0.474 Audit 89 angp	$\pi^0 X$ 0.137 - 0.147 Glavanakov 87 cs Glavanakov 86 cs
$K^+ K^- 2\pi^+ \pi^- X$ 50 - 150 Alvarez 90C mass	γ ^4He	$p X$ 1.6 Bratishevsky 87D pol
γ deuteron	X 2.3 - 3.3 Aleksanyan 86 cs	γ ^9Be
$J/\psi(1S) X$ 60 - 200 Aubert 84C cs	$\pi^- X$ 0.35 Ganenko 88 angp, asym. p	$\pi^0 X$ 0.137 - 0.147 Glavanakov 89 a-dep. cs
$p X$ 1.5 - 4.5 Avakyan 90 p, pol 1.6 Bratishevsky 87D pol	$p X$ 0.06 - 0.35 Ganenko 88 angp, asym. p	$\pi^+ X$ < 0.5 Stenz 86 p
$p n$ 0.01 - 1 Desantics 88 cs 0.0147 - 0.074 Barnabei 86 cs 0.03 - 0.1 Ganenko 89 angp, p 0.1 - 0.21 Desantics 88 angp 0.1 - 0.255 Desantics 86 angp 0.187 - 0.427 Maruyama 89 0.3 - 0.34 Fearing 86 angp 0.3 - 0.5 Bratishevsky 86B pol 0.3 - 1 Adamyan 88 asym, pol 0.4 - 0.8 Galumyan 88 asym, pol Adamyan 86 asym Agababyan 85C angp, asym, pol	$n X$ 0.17 - 0.45 Maruyama 89 Endo 88 p	$\pi^- X$ < 0.5 Stenz 86 p
0.45 - 0.65 Althoff 89 asyru, pol Meyer 88B asyru	$^4\text{He } \gamma$ 2.3 - 3.3 Aleksanyan 86 angp	$p X$ < 0.6 Zyalov 90B a-dep. angp, pol
0.5 Yokosawa 85 0.7 - 1 Bratishevsky 86 pol 0.8 - 1.6 Napolitano 88 angp, p 200 - 350 Zyalov 90 angp, pol	$^4\text{He } \pi^0$ 0.137 - 0.155 Argan 88 amp. cs	γ Be
deuteron π^0 0.137 - 0.155 Argan 88 amp. cs 0.4 - 0.8 Galumyan 88 asym, pol Adamyan 86 asym Adamyan 89 cs Adamyan 88 asym Imanishi 88 angp Asai 87 angp, cs Imanishi 85 p	$p n X$ 0.17 - 0.45 Maruyama 89 Endo 88 angp, cor 0.45 - 0.55 Adamyan 88 angp, cor asym	$\pi^0 X$ 0.2 - 0.6 Arakelyan 85 cs 0.22 - 0.45 Arends 85 cs
dibaryon π^- 2.5 Bock 85B angp	deuteron $p n$ 0.17 - 0.45 Maruyama 89 Endo 88 cs	$J/\psi(1S) X$ 80 - 190 Sokoloff 86 a-dep. angp, cs
$p \bar{p} X$ 60 - 225 Busennitz 89 mass	$2p 2n$ 0.17 - 0.45 Maruyama 89 Endo 88 cs	$D^0 X$ 80 - 230 Anjos 88 Anjos 88B Anjos 88C cs, p, pt Anjos 87 cs, p, pt Anjos 87D mass Grab 87 Raab 87 Anjos 86 Anjos 90
$p n \gamma$ 0.08 - 0.13 Rose 90 angp	γ He	$D^0 X$ 80 - 230 Anjos 88B Anjos 88C cs, p, pt Anjos 87 cs, p, pt Raab 87
$2p \pi^-$ 0.28 - 0.52 Zielinsky 88 cs, mass 0.35 - 0.45 Yokosawa 85 0.35 - 0.475 Yokosawa 85C 2.5 Bock 85B angp, mass	$\pi^0 X$ 0.1379 - 0.1699 Jammes 89 cs	$D^+ X$ 80 - 230 Anjos 88 Anjos 88C cs, p, pt Anjos 88E Anjos 88G Anjos 87 cs, p, pt Anjos 87D mass Raab 87 Anjos 86 Anjos 90 Anjos 90C Anjos 88D
$n \Delta(1232 P_{33})^{++} \pi^-$ 0.566 - 0.846 Asai 89 cs	$p X$ 0.187 - 0.427 Maruyama 89 angp, cs, p	$D^- X$ 80 - 230 Anjos 88C cs, p, pt Anjos 88E Anjos 88G Anjos 87 cs, p, pt Raab 87 Anjos 88D
$p n \pi^+ \pi^-$ 0.566 - 0.846 Asai 89 angp, mass	He π^0 0.19 - 0.43 Ananin 85 angp 0.29 Redwine 86 angp	$D_S^- X$ 80 - 230 Anjos 88C cs, p, pt Anjos 88G Raab 87 Anjos 88D
$p n K^+ K^-$ 45 - 85 Busennitz 89 mass	γ ^6Li	$D_S^- X$ 80 - 230 Anjos 88C cs, p, pt Anjos 88G Raab 87 Anjos 88D
γ ^3He	γX 50 - 150 Astbury 85 pt	$D_S^+ X$ 80 - 230 Anjos 88C cs, p, pt Anjos 88G Raab 87 Anjos 90C Anjos 88D
$\pi^+ X$ 0.35 Ganenko 88 angp, asym. p	$\pi^0 X$ 0.137 - 0.147 Glavanakov 89 a-dep. cs	$D^*(2010)^+ X$ 80 - 230 Anjos 88 Anjos 88B Anjos 87 cs Anjos 86
$\pi^- X$ 0.35 Ganenko 88 angp, asym. p	$J/\psi(1S) X$ 50 - 150 Barate 86B cs, p, pt	$D^*(2010)^- X$ 80 - 230 Anjos 88B Anjos 87 cs
$p X$ 0.06 - 0.35 Ganenko 88 angp, asym. p 0.35 Zyalov 88 pol	$X_{c1}(1P) X$ 50 - 150 Barate 86B cs	
deuteron p 0.09 - 0.35 Belyaev 86B angp, asym. pol 0.2 Gorbenko 85 angp, pol	$X_{c2}(1P) X$ 50 - 150 Barate 86B cs	
$^3\text{He } \pi^0$ 0.137 - 0.155 Argan 88 amp. cs	$\psi(2S) X$ 50 - 150 Barate 86B	
	$p X$ < 0.6 Zyalov 90B a-dep. angp, pol	
	$^6\text{Li}^* \pi^0$ 0.5 Naumenko 89 cs	
	$\mu^- \mu^+ X$ 50 - 150 Barate 86B mass	
	$p n X$ 0.3 - 1 Adamyan 88 asym	
	$^6\text{Li } \pi^0 \gamma$ 0.5 Naumenko 89 p	
	$J/\psi(1S) O\pi^0$ fragt (neutrals) 50 - 150 Barate 86B cs, pt	
	$\pi^+ \pi^- \mu^- \mu^+ X$ 50 - 150 Barate 86B mass	

γ Be $\rightarrow D_1(2420)^0$ X

γ Al \rightarrow (frags)

γ Be	γ Be	γ ^{12}C
$D_1(2420)^0$ X 80 - 230 Anjos 88F	2hadron (hadrons) Arakelyan 85	π^0 X 0.137 - 0.147 Glavanakov 89 a-dep, cs
$\bar{D}_1(2420)^0$ X 80 - 230 Anjos 88F	$\pi^+ \mu^+ e^-$ X 80 - 230 Anjos 87D Grab 87	π^\pm X 0.4 Tonapetyan 85B a-dep, angp
p X 0.187 - 0.427 Maruyama 89	$\pi^+ \mu^- e^+$ X 80 - 230 Anjos 87D Grab 87	π^- X < 0.5 Stenz 86
Λ_c^+ X 80 - 230 Anjos 88C Anjos 87B Klein 89C	$2\pi^+ \pi^-$ X 80 - 230 Anjos 88D	π^- X < 0.5 Stenz 86
$\bar{\Lambda}_c^-$ X 80 - 230 Anjos 88C	$\pi^+ 2\pi^-$ X 80 - 230 Anjos 88D	p X < 0.6 Zybalov 90B a-dep, angp, pol
$\Sigma_c(2455)^0$ X 80 - 230 Anjos 89	$K^+ \pi^- e^-$ X 80 - 230 Anjos 88B	$^{12}\text{C}^* \pi^0$ 0.5 Naumenko 89
$\Sigma_c(2455)^{++}$ X 80 - 230 Anjos 89	$K^+ \pi^+ e^+$ X 80 - 230 Anjos 88B	$^{12}\text{C} \pi^0 \gamma$ 0.5 Naumenko 89
$\text{Be } \pi^0$ 0.2 - 0.9 Ananikyan 87	$K^+ 2\pi^-$ X 80 - 230 Anjos 88D Anjos 87	γ C π^0 X 0.137 - 0.147 Glavanakov 87 Glavanakov 86
$\text{Be } J/\psi(1S)$ 80 - 190 Sokoloff 86	$K^- 2\pi^+$ X 80 - 230 Anjos 88 Anjos 88D Anjos 87D Anjos 86	0.1379 - 0.1699 Jammes 89 Arakelyan 85 Arends 85 Belousov 88
$e^- e^+$ X 80 - 230 Anjos 87D Grab 87	$\bar{K}^*(892)^0 e^+ \nu_e$ X 145 Anjos 90C	0.2 - 0.6 0.22 - 0.45 0.3 - 0.44
$\mu^+ e^-$ X 80 - 230 Anjos 87D Grab 87	$K^+ K^- \pi^+$ X 80 - 230 Anjos 88G	p X 0.187 - 0.427 Maruyama 89
$\mu^- e^+$ X 80 - 230 Anjos 87D Grab 87	$K^+ K^- \pi^-$ X 80 - 230 Anjos 88G	0.34 - 0.58 Maruyama 89
$\mu^- \mu^+$ X 80 - 190 Sokoloff 86 Anjos 87D Grab 87	$p K^- \pi^+$ X 80 - 230 Anjos 87B	1.5 - 4.5 Avakyan 89 Alanakyan 88 Avakyan 85B
$\phi \pi^+$ X 80 - 230 Anjos 88G Raab 87	$K^+ \pi^+ 2\pi^-$ X 80 - 230 Anjos 88F Anjos 87 Raab 87	1.6 Alanakyan 84 Bratashevsky 87D
$\phi \pi^-$ X 80 - 230 Anjos 88G Raab 87	$K^- 2\pi^+ \pi^-$ X 80 - 230 Anjos 88 Anjos 88F Anjos 87 Raab 87 Anjos 86	$C \pi^0$ 0.2 - 0.9 Ananikyan 87
$D^0 \pi^+$ X 80 - 230 Anjos 88 Anjos 86	$p K^- 2\pi^+$ X 80 - 230 Anjos 89	$p \pi$ X 1.5 - 4.5 Alanakyan 88
D^+ π^- X 80 - 230 Anjos 88F	$p K^- \pi^+ \pi^-$ X 80 - 230 Anjos 89	$2p$ X 1.5 - 4.5 Alanakyan 88
$D^- \pi^+$ X 80 - 230 Anjos 88F	$2\pi^+ 3\pi^-$ X 80 - 230 Anjos 88D	$2p$ X + $p \pi$ X 1.5 - 4.5 Alanakyan 87
$D^*(2010)^+ \pi^-$ X 80 - 230 Anjos 88F	$3\pi^+ 2\pi^-$ X 80 - 230 Anjos 88D	2hadron (hadrons) 0.2 - 0.9 Ananikyan 87 Arakelyan 85
$D^*(2010)^- \pi^+$ X 80 - 230 Anjos 88F	$K^- 2\pi^+ \pi^0 \pi^-$ X 80 - 230 Anjos 90	γ ^{16}O π^0 X 0.137 - 0.147 Glavanakov 89 a-dep, cs
$K^+ \pi^-$ X 80 - 230 Anjos 87	$K^- 3\pi^+ \pi^-$ X 80 - 230 Anjos 90	π^+ X < 0.5 Stenz 86
$K^- \pi^+$ X 80 - 230 Anjos 88 Anjos 87 Anjos 86	$\bar{K}^0 2\pi^+ 2\pi^-$ X 80 - 230 Anjos 90	π^- X < 0.5 Stenz 86
$K^0 \pi^+$ X 80 - 230 Anjos 87D	$K^+ K^- 2\pi^+ \pi^-$ X 80 - 230 Anjos 88G	$^{16}\text{Ni} p$ 0.196 Turley 85
$\bar{K}^*(892)^0 \eta$ X 80 - 230 Anjos 90	$K^+ K^- \pi^+ 2\pi^-$ X 80 - 230 Anjos 88G	$^{16}\text{O} n$ 0.15 - 0.25 Beise 89
$\bar{K}^*(892)^0 \omega$ X 80 - 230 Anjos 90	$K^+ 2\pi^+ 3\pi^-$ X 80 - 230 Anjos 88F	γ O π^0 X 0.2 - 0.6 Arakelyan 85
$K^*(892)^0 K^-$ X 80 - 230 Anjos 88G Raab 87	$K^- 3\pi^+ 2\pi^-$ X 80 - 230 Anjos 88F	2hadron (hadrons) 0.2 - 0.9 Arakelyan 85
$\bar{K}^*(892)^0 K^+$ X 80 - 230 Anjos 88G Raab 87	γ ^{11}Bor $^{11}\text{C} \pi^-$ 1.5 - 4.5 Arakelyan 90	γ ^{24}Mg π^\pm X 0.4 Tonapetyan 85B a-dep, angp
2hadron (hadrons) 0.2 - 0.9 Ananikyan 87	γ Al (frags) 0.8 - 1.8 Delina 90B	cs

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

γ Al \rightarrow mult[charged] X γ $^{120}\text{Sn} \rightarrow$ $^{120}\text{Sb} \pi^-$

γ Al				γ Cr		γ Cu		
mult[charged] X 0.5 - 3.3	Arakelyan 89D	mult		$2p$ X + p π X 1.5 - 4.5	Alanakyan 87	p X 1.6	Bratashevsky 87D	pol
π^0 X 0.2 - 0.6 0.22 - 0.45	Arakelyan 85 Arends 85	es cs		γ ^{64}Fe		γ ^{66}Cu		
p X 1.5 - 4.5	Avakyan 90	p, pol		π^\pm X 0.4	Tonapetyan 85B a-dep. angp	$^{68}\text{Ni} \pi^+$ 1.5 - 4.5	Arakelyan 90	cs
$2p$ X + p π X 1.5 - 4.5	Alanakyan 87	ang		γ Fe		$^{69}\text{Zn} 2n \pi^-$ 1.5 - 4.5	Arakelyan 90	cs
2hadron (hadrons) 0.2 - 0.9	Arakelyan 85	cs		X (197.8 - 614.2) Aglamazov 85		$^{62}\text{Zn} 3n \pi^-$ 1.5 - 4.5	Arakelyan 90	cs
γ ^{27}Al				$J/\psi(1S)$ X 60 - 200 80 - 190	Aubert 84C Sokoloff 86	γ Ge		
π^\pm X 0.4	Tonapetyan 85B a-dep. angp			Fe $J/\psi(1S)$ 80 - 190	Sokoloff 86	D^0 X 70 - 225	Amendolia 87	-
p X < 0.6	Zybalov 90B a-dep. angp, pol			$\mu^- \mu^+ X$ 80 - 190	Sokoloff 86	\bar{D}^0 X 70 - 225	Amendolia 87	-
$^{27}\text{Mg} \pi^+$ 1.5 - 4.5	Arakelyan 90	cs		γ ^{66}Fe		Λ_c^+ X 70 - 225	Klein 89C Amendolia 87B	-
2fragm X 0.8 - 1.8	Delima 89	angp. cs, p		π^\pm X 0.4	Tonapetyan 85B a-dep. angp	p $K^- \pi^+ \pi^0$ X 70 - 225	Amendolia 87B	mass
3fragm X 0.8 - 1.8	Delima 89	angp. cs, p		γ Co		γ Zr		
γ ^{28}Si				(frags) 0.8 - 1.8	Delima 90B	(frags) 0.8 - 1.8	Delima 90B	cs
π^\pm X 0.4	Tonapetyan 85B a-dep. angp			γ ^{59}Co		2fragm X 0.8 - 1.8	Delima 89	angp. cs, p
γ Si				2fragm X 0.8 - 1.8	Delima 89	3fragm X 0.8 - 1.8	Delima 89	angp. cs, p
Λ_c^+ X 70 - 225	Klein 89C Amendolia 87B			3fragm X 0.8 - 1.8	Delima 89	γ Nb		
p $K^- \pi^+ \pi^0$ X 70 - 225	Amendolia 87B	mass		γ ^{60}Ni		(frags) 0.8 - 1.8	Delima 90B	cs
γ S				fragm X 1.5 - 4.5	Arakelyan 86	^7Be X 4.5	Amroyan 89	cs
$2p$ X + p π X 1.5 - 4.5	Alanakyan 87	ang		$^{60}\text{Cu} \pi^-$ 1.5 - 4.5	Arakelyan 90	^{24}Na X 4.5	Amroyan 89	cs
γ ^{40}Ca				$^{59}\text{Fe} p \pi^+$ 1.5 - 4.5	Arakelyan 90	γ ^{63}Nb		
π^0 X 0.168	Koch 89	angp. cs		γ ^{61}Ni		π^\pm X 0.4	Tonapetyan 85B a-dep. angp	
π^\pm X 0.4	Tonapetyan 85B a-dep. angp			fragm X 1.5 - 4.5	Arakelyan 86	γ Ag		
$^{40}\text{Ca} \pi^0$ 0.168	Koch 89	angp. cs		$^{61}\text{Co} \pi^+$ 1.5 - 4.5	Arakelyan 90	(frags) 0.8 - 1.8	Delima 90B	cs
$\text{Ca}^+ \pi^0$ 0.168	Koch 89	angp. cs		$^{61}\text{Cu} \pi^-$ 1.5 - 4.5	Arakelyan 90	^7Be X 2.9 - 4.5	Amroyan 89	cs
γ Ca				γ ^{62}Ni		^{24}Na X 0.78 - 4.5	Amroyan 89	cs
π^0 X 0.1379 - 0.1699	Jammes 89	cs		fragm X 1.5 - 4.5	Arakelyan 86	fragm X 1.5 - 4.5	Amroyan 88	cs
γ Ti				$^{62}\text{Co} \pi^+$ 1.5 - 4.5	Arakelyan 90	γ In		
(frags) 0.8 - 1.8	Delima 90B	cs		$^{61}\text{Fe} p \pi^+$ 1.5 - 4.5	Arakelyan 90	(frags) 0.8 - 1.8	Delima 90B	cs
2fragm X 0.8 - 1.8	Delima 89	angp. cs, p		γ Cu		γ ^{118}Sn		
3fragm X 0.8 - 1.8	Delima 89	angp. cs, p		mult[charged] X 0.5 - 3.3	Arakelyan 89D	$^{118}\text{In}^+ \pi^+$ 1.5 - 4.5	Arakelyan 90	cs
γ ^{48}Ti				^7Be X 4	Amroyan 89	$^{118}\text{Sb} \pi^-$ 1.5 - 4.5	Arakelyan 90	cs
π^+ X < 0.5	Stenz 86	p		^{24}Na X 0.6 - 5	Amroyan 89	γ Sn		
π^- X < 0.5	Stenz 86	p		π^0 X 0.22 - 0.45	Arends 85	π^0 X 0.22 - 0.45	Arends 85	cs
				p X 1.5 - 4.5	Avakyan 85B a-dep. asym. p Alanakyan 84	p X 1.5 - 4.5	Avakyan 89 Avakyan 85B a-dep. asym. p	pol
						γ ^{120}Sn		
						$^{120}\text{Sb} \pi^-$ 1.5 - 4.5	Arakelyan 90	cs

γ $^{120}\text{Sn} \rightarrow ^{118}\text{Sb} 2n \pi^-$

$\bar{\nu} \text{Ne} \rightarrow \text{charged}^- \text{X}$

γ ^{120}Sn	γ ^{208}Bi	ν deuteron
$^{118}\text{Sb} 2n \pi^-$ 1.5 - 4.5 Arakelyan 90 cs	$\pi^\pm \text{X}$ 0.4 Tonapetyan 85B a-dep. angp	νX 200 Berger 86B angp. cs
γ ^{122}Sn	γ ^{238}U	$\mu^- \text{X}$ < 200 Nachtmann 85 angp. p
$^{122}\text{Sb} \pi^-$ 1.5 - 4.5 Arakelyan 90 cs	fragt X 0.15 - 4.32 Arakelyan 89 cs Arakelyan 89C cs	$\pi^+ \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
γ ^{124}Sn	γ ^{238}U	$\pi^- \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
$^{124}\text{Sb} \pi^-$ 1.5 - 4.5 Arakelyan 90 cs	X 0.15 - 3.55 Arakelyan 89E cs	$p \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
$^{120}\text{Sb} 4n \pi^-$ 1.5 - 4.5 Arakelyan 90 cs	$\pi^\pm \text{X}$ 0.4 Tonapetyan 85B a-dep. angp	νNe
γ Xe	fragt X 0.15 - 4.32 Arakelyan 89 cs Arakelyan 89C cs	black X 50 Ammar 89B mult
Xe $e^- e^+$ 0.025 - 2.5 Strugalski 88B cs	γ nucleus	grey X 50 Ammar 89B mult
γ Cs(atom)	X 0.1 - 0.53 Arends 88 cs 100 - 10^3 Zatsepin 89 cs > 10^3 Bond 89 cs $75 \cdot 10^3$ Tanimori 89 flux > 10^5 Bond 88B cs	shower X 50 Ammar 89B mult
Cs(atom) γ 0.4 · 10^{-9} Gilbert 86B pol, qnc Gilbert 85 pol, qnc	inelastic 4.1 - 185 Fredriksson 87 a-dep. cs 900 - 10^4 Bakatanov 88 cs	$\pi^+ \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
γ Nd	$\mu^\pm \text{X}$ > $5 \cdot 10^4$ Dingus 88 cs Dingus 88B cs	$\pi^- \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
(frags) 0.8 - 1.8 Delima 90B cs	$\pi^0 \text{X}$ 0.23 - 0.45 Arends 88 angp. cs	$p \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
γ Sm	$\pi^+ \text{X}$ 0.2 - 0.4 Arends 88 p	$p \text{ mult}[p] \mu^- \text{X}$ 10 - 100 Matsinos 89 angp. mult
(frags) 0.8 - 1.8 Delima 90B cs	$\pi^- \text{X}$ 0.2 - 0.4 Arends 88 p	ν Fe
γ Ta	$p \text{X}$ 0.187 - 0.427 Maruyama 89 angp. cs, p 0.2 - 0.4 Arends 88 p	$\mu^- \text{X}$ 10 - 260 Berge 89 p < 200 Nachtmann 85 angp. p
(frags) 0.8 - 1.8 Delima 90B cs	fragt X 0.1 - 7.4 Fredriksson 87 cs	ν nucleus
$^7\text{Be} \text{X}$ 4 Amroyan 89 cs	shower X > $5 \cdot 10^4$ Haines 90 cs Dingus 88 cs Dingus 88B cs	$e^+ \text{X}$ 10 - 200 Grassler 86 cs
$^{24}\text{Na} \text{X}$ 2.9 - 4.5 Amroyan 89 cs	$\Lambda_c^+ \bar{D}^0 \text{X}$ 20 - 70 Forino 87 cs	$\mu^+ \text{X}$ 10 - 200 Grassler 86 cs
γ ^{181}Ta	$\Lambda_c^+ D^- \text{X}$ 20 - 70 Forino 87 cs	black X 50 Ammar 89B mult
$\pi^\pm \text{X}$ 0.4 Tonapetyan 85B a-dep. angp	nucleus $e^- e^+$ 13 - 25 Baskov 88 ang. p	grey X 50 Ammar 89B mult
γ ^{207}Pb	ν p	mult[hadron] X 10 - 200 Grassler 86 cs
$\pi^\pm \text{X}$ 0.4 Tonapetyan 85B a-dep. angp	$\mu^- \text{X}$ 200 Berger 86B angp. cs	shower X 50 Ammar 89B mult
γ Pb	$\Sigma_c(2455)^+ \mu^- \text{X}$ 30 - 300 Klein 89C p	ν deuteron
mult[charged] X 0.5 - 3.3 Arakelyan 89D mult	$\Lambda(1520 D_{03}) \mu^+ \text{X}$ 5 - 150 Allen 85 p	$\bar{\nu} \text{X}$ 200 Berger 86B angp. cs
$\pi^0 \text{X}$ 0.22 - 0.45 Arends 85 cs	$p \pi^+ \mu^-$ 5 - 150 Allen 85 p	$\pi^+ \mu^+ \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
$J/\psi(1S) \text{X}$ 80 - 190 Sokoloff 86 a-dep. angp. cs	$p K^+ \mu^-$ 5 - 150 Allen 85 p	$\pi^- \mu^+ \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
$p \text{X}$ 1.5 - 4.5 Avakyan 90 p, pol Avakyan 85B a-dep. asym. p Alanakyan 84 p, pt	ν charged-hadron (charged-hadrons) (neutrals) 10 - 260 Jongejans 89 mult. p	$p \mu^+ \text{X}$ 10 - 100 Matsinos 89 angp. p. pt
Pb $J/\psi(1S)$ 80 - 190 Sokoloff 86 a-dep. cs	ν n	$\bar{\nu} \text{Ne}$
$\mu^- \mu^+ \text{X}$ 80 - 190 Sokoloff 86 angp. mass	ν (charged-hadrons) (neutrals) 10 - 260 Jongejans 89 mult. p	charged X 10 - 200 Fredriksson 87 angp. mult. p
γ ^{208}Pb	$\pi^+ \text{X}$ < 0.5 Stenz 86 p	charged⁻ X 10 - 200 Fredriksson 87 angp. mult. p
$\pi^- \text{X}$ < 0.5 Stenz 86 p		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\bar{\nu}$ Ne $\rightarrow \pi^+ X$ $\nu_{\mu} p \rightarrow \mu^-$ mult[charged] (neutrals)

$\bar{\nu}$ Ne	ν_e nucleus	$\nu_{\mu} e^-$
$\pi^+ X$ 10 - 200 Fredriksson 87 angp. mult. p	$e^- X$ 0.02 - 0.06 0.1 - 1.1 0.2 - 20 Gajewski 89 Suzuki 88 Berger 89B Perdereau 89 Longuemare 88 Nakamura 88 Angelini 86 Bergsma 88	$e^- \nu_{\mu}$ 10 - 160 10 - 200 < 200 Dorenbosch 89 const. cs Geirgat 89 const. cs Baker 89 const. cs Klein 84B -
$\pi^- X$ 10 - 200 Fredriksson 87 angp. mult. p	0.4 - 2 0.5 - 19 1 - 13 Ushida 86C	$\mu^- \nu_e$ 10 - 160 15 - 600 Dorenbosch 89 const. cs Mishra 89B angp. const. cs
$p X$ 10 - 200 Fredriksson 87 angp. mult. p	$\tau^- X$ 10 - 100 Ushida 86C	$\nu_{\mu} p$ $\nu_{\mu} X$ 5 - 150 10 - 260 Jones 86 Allasia 88C
$\pi^+ \mu^+ X$ 10 - 100 Matsinos 89 angp. p. pt	$\bar{\nu}_e e^-$ $e^- \bar{\nu}_e$ 0.002 - 0.009 Ketov 88 Ketov 86B Vidyakin 89B	$\mu^- X$ 3 - 30 5 - 150 Brunner 89 Jones 89C Jones 87 Jones 86 Aderholz 86 Allasia 88C Allasia 85C
$\pi^- \mu^+ X$ 10 - 100 Matsinos 89 angp. p. pt	$\bar{\nu}_e p$ $n e^+$ 0.002 - 0.009 Kopeikin 90 Verzhinsky 90 Afonin 88 Afonin 88B Ketov 88 Mikaelyan 88 Afonin 87 Afonin 87B Afonin 87C Afonin 85 Afonin 85B Afonin 85C Belenky 85 Vidyakin 87 Hirata 88F Hirata 87C Krivoruchenk 87 Zacek 86B Zacek 85 Bouchez 88 Zacek 86 Durkin 88 Losecco 87 Krizmanic 89 Raffelt 90	$p \nu_{\mu}$ < 12 Ahrens 87C Abe 86B angp. cs angp. cs
$p \mu^+ X$ 10 - 100 Matsinos 89 angp. p. pt	$\nu_e e^-$ $e^- \nu_e$ 0.0002 - 0.007 0.004 0.005 - 0.05 Hirata 89 Derbin 86 Hirata 88F Hirata 87C Krivoruchenk 87 Nakamura 88 Allen 85B Allen 89 Raffelt 90 Suzuki 89 Totsuka 89B	$\Delta(1232 P_{33})^{++} \mu^-$ 0.2 - 5 Kitagaki 86 cs. dime. p
$p \text{ mult}[p] \mu^+ X$ 10 - 100 Matsinos 89 angp. mult	$\nu_e n$ $p e^-$ > 0.2 1.5 < 4 < 12 Allison 89B Lile 89 Ahrens 87 Ahrens 86 Ahrens 85B	$\mu^- \text{ charged } X$ 5 - 150 Bosetti 90 mass. pt
$\bar{\nu}$ Fe	ν_e nucleus	$\pi^+ \mu^- X$ < 200 Schmitz 88 mult
$\mu^+ X$ 10 - 260 Berge 89	$\nu_e e^-$ $e^- \nu_e$ 0.004 - 0.01 0.005 - 0.05 < 0.008 < 0.01 < 0.053 0.2 - 2 1.5 ? Vidyakin 87 Hirata 88F Hirata 87C Krivoruchenk 87 Zacek 86B Zacek 85 Bouchez 88 Zacek 86 Durkin 88 Losecco 87 Krizmanic 89 Raffelt 90	$\pi^- \mu^- X$ 5 - 150 < 200 Jones 85 Schmitz 88 cs. mult. p mult
$e^- X$ 10 - 200 Grassler 86	$\nu_e p$ $n e^+$ 0.002 - 0.009 Kopeikin 90 Verzhinsky 90 Afonin 88 Afonin 88B Ketov 88 Mikaelyan 88 Afonin 87 Afonin 87B Afonin 87C Afonin 85 Afonin 85B Afonin 85C Belenky 85 Vidyakin 87 Hirata 88F Hirata 87C Krivoruchenk 87 Zacek 86B Zacek 85 Bouchez 88 Zacek 86 Durkin 88 Losecco 87 Krizmanic 89 Raffelt 90	$\rho^0 \mu^- X$ 10 - 260 < 200 Allasia 85B Schmitz 88 mult pol
$\mu^- X$ 10 - 200 Grassler 86	ν_e deuteron	$D^0 \mu^- X$ 5 - 150 Jones 87B cs
$e^- \nu_e$ 0.0002 - 0.007 0.004 0.005 - 0.05 Hirata 89 Derbin 86 Hirata 88F Hirata 87C Krivoruchenk 87 Nakamura 88 Allen 85B Allen 89 Raffelt 90 Suzuki 89 Totsuka 89B	$p n \bar{\nu}_e$ 0.002 - 0.009 0.004 - 0.01 Vershinsky 90 Ketov 88 Vidyakin 90	$D^*(2010)^+ \mu^- X$ 5 - 150 Jones 87B cs
$\nu_e n$ $p e^-$ > 0.2 1.5 < 4 < 12 Allison 89B Lile 89 Ahrens 87 Ahrens 86 Ahrens 85B	$2n e^+$ 0.002 - 0.009 0.004 - 0.01 Vershinsky 90 Ketov 88 Vidyakin 90 Vidyakin 89	$K_S \mu^- X$ 5 - 150 10 - 260 Jones 85 Allasia 85D cs. mult. p cs
ν_e nucleon	ν_e nucleus	$\Lambda_c^+ \mu^- X$ 5 - 150 Jones 87B cs
$\nu_e X$ 10 - 160 10 - 260 Allaby 86 Dorenbosch 86	$\text{charged } X$ 0.1 - 1.1 Suzuki 88	$\Sigma_c(2455)^0 \mu^- X$ 5 - 150 Jones 87B cs
$e^- X$ 3 - 30 < 7 10 - 160 10 - 260 Ammosov 88D Blumenfeld 89 Allaby 86 Dorenbosch 86	$\bar{\nu}_e X$ 0.2 - 20 Berger 89B Perdereau 89 Longuemare 88	$\Sigma_c(2455)^{++} \mu^- X$ 5 - 150 Jones 87B cs
$\nu_e C$ $e^- X$ 0.05 - 0.3 Dombeck 87	$e^+ X$ 0.1 - 1.1 0.2 - 20 Suzuki 88 Berger 89B Perdereau 89 Longuemare 88 Nakamura 88 Bergsma 88	$\Lambda \mu^- X$ 5 - 150 10 - 260 Jones 85B Allasia 85D pol cs
$\nu_e {}^{37}\text{Cl}$ ${}^{37}\text{Ar } e^-$ > 0.0005 < 0.02 Cribier 87 Nakamura 88	$\tau^- X$ 10 - 100 Ushida 86C	$\Sigma(1385 P_{13})^+ \mu^- X$ 10 - 260 Allasia 85D cs
ν_e nucleus	$\nu_{\mu} e^-$ $e^- \nu_{\mu}$ 1.27 1.5 Abe 89E Abe 86D Ahrens 85	$\Sigma(1385 P_{13})^- \mu^- X$ 10 - 260 Allasia 85D cs
$\text{charged } X$ 0.1 - 1.1 Suzuki 88	$\nu_{\mu} \text{ hadron}^+ X$ < 200 Schmitz 88 mult	$\text{mult}[p] \mu^- X$ 10 - 300 Guy 89 cs. mult. p
$\nu_e X$ 0.2 - 20 Berger 89B Perdereau 89 Longuemare 88	$\mu^- \text{ hadron}^- X$ < 200 Schmitz 88 mult	$\nu_{\mu} \text{ hadron}^- X$ < 200 Schmitz 88 mult
$\mu^- \text{ hadron}^+ X$ < 200 Schmitz 88 mult	$\mu^- \text{ hadron}^- X$ 5 - 150 < 200 Jones 85 Schmitz 88 cs. mult. p mult	$\mu^- \text{ mult[charged] (neutrals)}$ 5 - 150 Jones 85 cs. mult. p

$\nu_\mu p \rightarrow p \pi^+ \mu^-$

ν_μ deuteron $\rightarrow \rho^0 \mu^- X$

$\nu_\mu p$	$\nu_\mu n$	ν_μ nucleon
$p \pi^+ \mu^-$ 0.2 - 5 Kitagaki 86 3 - 30 Grabosch 89 5 - 150 Jones 89B < 30 Schmitz 88	$p \pi^0 \mu^-$ 3 - 30 Grabosch 89 < 30 Schmitz 88 $n \pi^+ \mu^-$ 0.2 - 5 Kitagaki 86 3 - 30 Grabosch 89 < 30 Schmitz 88 $p \pi^+ \pi^- \mu^-$ 0.2 - 5 Kitagaki 86 $p 2\pi^+ 2\pi^- \mu^-$ 0.2 - 5 Kitagaki 86	$\mu^- \mu^+ X$ 30 - 600 < 300 $2\mu^- X$ 30 - 230 < 300 $\pi^+ \mu^- X$ 3 - 30 $\pi^- \mu^- X$ 3 - 30 $\rho^0 \mu^- X$ 3 - 30 10 - 200 $\mu^+ 0\mu^\pm X$ 10 - 230 $\mu^- \ell^+ X$ < 300 $\mu^- \ell^- X$ < 300 μ^- charmed-meson X 3 - 30 10 - 200 $\Lambda_c^+ \mu^- X$ 10 - 200 μ^- charm X 10 - 200 30 - 600 μ^- hadron ⁺ X < 230 μ^- hadron ⁻ X < 230 charm charm X 10 - 200 $p \pi^+ \mu^-$ 3 - 30 $\pi^+ \pi^- \mu^- X$ 10 - 200 $D_s^+(2547) + \mu^- \gamma X$ 10 - 200 ν_μ charm charm X 10 - 200 μ^- hadron jet X < 230 $D^*(2010) + K^0 \mu^- \gamma X$ 10 - 200 $\mu^- e^+ 2$ hadron (hadrons) 3 - 30
$p D_s^+(2790) + \mu^-$ 10 - 200 Batusov 88C $\pi^\pm \mu^-$ hadron(s) 5 - 150 Jones 90 π^+ hadron(s) 5 - 150 Jones 90 $\pi^- \mu^-$ hadron(s) 5 - 150 Jones 90 μ^- hadron ⁺ hadron(s) 5 - 150 Jones 90 μ^- hadron ⁻ hadron(s) 5 - 150 Jones 90 μ^- hadron ⁺ hadron(s) + μ^- hadron ⁻ hadron(s) 5 - 150 Jones 90 $p(p's) \mu^- X$ 10 - 300 Guy 89 $p 2\pi^+ \pi^- \mu^-$ 0.2 - 5 Kitagaki 86 μ^- 3charged (charged) (neutrals) 5 - 150 Bosetti 90 $p 3\pi^+ 2\pi^- \mu^-$ 0.2 - 5 Kitagaki 86	ν_μ nucleon $\nu_\mu X$ 3 - 30 Ammosov 861 10 - 160 Blondel 90 Allaby 89 Allaby 88C Allaby 87 Allaby 86B Abramowicz 85 Ushida 88B Reutens 90 Bogert 85B Bergsma 85C Bogert 86 Bogert 85 $e^- X$ < 7 Blumenfeld 89 $\mu^- X$ 3 - 30 Ammosov 88D Ammosov 87D Ammosov 87E Ammosov 861 Ammosov 85 Ammosov 85B 10 - 100 Varvell 87 10 - 160 Blondel 90 Allaby 88 Allaby 87 Berge 87 Allaby 86 Allaby 86B Abramowicz 85 Ammosov 88 Ushida 88B Ammosov 87B Diemoz 86 Bergsma 84C Reutens 90 Bogert 85B Bergsma 85C Bogert 85 Murtagh 85B heavy-lepton ⁰ X 30 - 230 Mishra 87 charm X 10 - 200 Ushida 88B $\Delta(1232 F_{33})^{++} \mu^-$ 3 - 30 Ammosov 88B $\Lambda_c^+ \mu^-$ 3 - 30 Ammosov 87D $\mu^- e^+ X$ 3 - 30 Ammosov 88E Ammosov 87D $\mu^- e^- X$ 3 - 30 Ammosov 88E Ammosov 87E $\mu^- \mu^+ X$ 30 - 230 Lang 87	$\mu^- \mu^+ X$ Mishra 87 Foudas 88B Murtagh 85B Lang 87 angp. cs. mass, p. pt Murtagh 85B Ammosov 86H Ammosov 86H Ammosov 86H Ammosov 86G Mishra 89 Murtagh 85B Murtagh 85B Ammosov 87D Ushida 88 Ushida 88L Ushida 88 Ushida 88B Foudas 88B Mukherjee 86 Mukherjee 86 Ushida 88B Ammosov 88B Ammosov 86G Asratyan 87C Ushida 88B Mukherjee 86 Asratyan 87C Ushida 88B Allport 89 Guy 87 Cole 88 Hanlon 85 Allasia 88C Allasia 85C Kitagaki 88 Allasia 86 Allasia 85B mass, mult. p. pt
$\nu_\mu n$ $\nu_\mu X$ 10 - 260 Allasia 88C $\mu^- X$ 3 - 30 Brunner 89 10 - 260 Allasia 88C Allasia 85C $p \mu^-$ > 0.15 Allison 89B 1.5 Lile 89 3 - 30 Grabosch 86D < 4 Belikov 85 < 12 Belikov 83B < 12 Ahrens 87 < 12 Ahrens 86 Ahrens 85B $\Delta(1232 F_{33})^+ \mu^-$ 0.2 - 5 Kitagaki 86 $\rho^0 \mu^- X$ 10 - 260 Allasia 85B $K_S \mu^- X$ 10 - 260 Allasia 85D $\Lambda \mu^- X$ 10 - 260 Allasia 85D $\Sigma(1385 F_{13})^+ \mu^- X$ 10 - 260 Allasia 85D $\Sigma(1385 F_{13})^- \mu^- X$ 10 - 260 Allasia 85D ν_μ hadron ⁺ X < 200 Schmitz 88 ν_μ hadron ⁻ X < 200 Schmitz 88 μ^- hadron ⁺ X < 200 Schmitz 88 μ^- hadron ⁻ X < 200 Schmitz 88 $p \pi^0 \mu^-$ 0.2 - 5 Kitagaki 86	$\nu_\mu n$ $\nu_\mu X$ 3 - 30 Ammosov 88D Ammosov 87D Ammosov 87E Ammosov 861 Ammosov 85 Ammosov 85B 10 - 100 Varvell 87 10 - 160 Blondel 90 Allaby 88 Allaby 87 Berge 87 Allaby 86 Allaby 86B Abramowicz 85 Ammosov 88 Ushida 88B Ammosov 87B Diemoz 86 Bergsma 84C Reutens 90 Bogert 85B Bergsma 85C Bogert 85 Murtagh 85B heavy-lepton ⁰ X 30 - 230 Mishra 87 charm X 10 - 200 Ushida 88B $\Delta(1232 F_{33})^{++} \mu^-$ 3 - 30 Ammosov 88B $\Lambda_c^+ \mu^-$ 3 - 30 Ammosov 87D $\mu^- e^+ X$ 3 - 30 Ammosov 88E Ammosov 87D $\mu^- e^- X$ 3 - 30 Ammosov 88E Ammosov 87E $\mu^- \mu^+ X$ 30 - 230 Lang 87	ν_μ nucleon $\nu_\mu X$ 10 - 260 Allasia 88C $\mu^- X$ 10 - 100 Allport 89 10 - 200 Guy 87 10 - 200 Cole 88 10 - 260 Hanlon 85 10 - 260 Allasia 88C < 500 Allasia 85C Kitagaki 88 $\Delta(1232 F_{33})^{++} X$ 10 - 260 Allasia 86 $\rho^0 \mu^- X$ 10 - 260 Allasia 85B

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

ν_μ deuteron $\rightarrow \mu^-$ heavy-lepton⁰ X ν_μ Ne \rightarrow Ne $\pi^0 \nu_\mu$

ν_μ deuteron		ν_μ deuteron		ν_μ Ne		ν_μ Ne	
μ^- heavy-lepton ⁰ X		$p(\text{spect}) p \pi^+ \pi^- \mu^-$		$\rho^+ \mu^- X$		$\rho^+ \mu^- X$	
10 - 260	Allasia 85	0.2 - 5	Kitagaki 86	< 200	Schmitz 88	< 200	mult
$K^*(892)^+ \mu^- X$		$p(\text{spect}) n K^0 \pi^+ \mu^-$		$\rho^- \mu^- X$		$\rho^- \mu^- X$	
10 - 260	Allasia 85D	1 - 5	Mann 86	< 200	Schmitz 88	< 200	mult
$K^*(892)^- \mu^- X$		$p(\text{spect}) \Lambda K^+ \pi^- \nu_\mu$		$\rho^0 \mu^- X$		$\rho^0 \mu^- X$	
10 - 260	Allasia 85D	1 - 5	Mann 86	10 - 100	Wittek 89	10 - 100	mult, p, pt
$\Lambda \mu^- X$		$p(\text{spect}) \Lambda K^+ \pi^0 \mu^-$		< 200	Wittek 87	< 200	dme
10 - 260	Allasia 85D	1 - 5	Mann 86	< 200	Schmitz 88	< 200	mult, pol
mult[p] $\mu^- X$		$p(\text{spect}) \Lambda K^0 \pi^+ \mu^-$		$\omega \mu^- X$		$\omega \mu^- X$	
10 - 300	Guy 89	1 - 5	Mann 86	10 - 100	Wittek 89	10 - 100	mult, p, pt
$\nu_\mu q X$		$p(\text{spect}) p K^+ K^- \mu^-$		$f_2(1270) \mu^- X$		$f_2(1270) \mu^- X$	
10 - 260	Allasia 88B	1 - 5	Mann 86	10 - 100	Wittek 89	10 - 100	mult, p, pt
$\mu^- q X$		$n(\text{spect}) p 2\pi^+ \pi^- \mu^-$		mult[π^+] $\mu^- X$		mult[π^+] $\mu^- X$	
10 - 260	Allasia 88B	0.2 - 5	Kitagaki 86	10 - 100	Wittek 88	10 - 100	angp, mult, p
μ^- (neutrals) even-charged		$n(\text{spect}) p K^+ \bar{K}^0 \pi^0 \mu^-$		mult[π^-] $\mu^- X$		mult[π^-] $\mu^- X$	
10 - 260	Tenner 88	1 - 5	Mann 86	10 - 100	Wittek 88	10 - 100	angp, mult, p
μ^- (neutrals) odd-charged		$p(\text{spect}) p 2\pi^+ 2\pi^- \mu^-$		mult[π^0] $\mu^- X$		mult[π^0] $\mu^- X$	
10 - 260	Tenner 88	0.2 - 5	Kitagaki 86	10 - 100	Wittek 88	10 - 100	angp, mult, p
$2\pi^+ \nu_\mu X$		$n(\text{spect}) p 3\pi^+ 2\pi^- \mu^-$		$K_S \mu^- X$		$K_S \mu^- X$	
10 - 260	Allasia 88	0.2 - 5	Kitagaki 86	10 - 200	Baker 86	10 - 200	angp, cs, mass, p, pt
$2\pi^- \nu_\mu X$		$\nu_\mu C$		$p \mu^- X$		$p \mu^- X$	
10 - 260	Allasia 88	$\mu^- X$		< 200	Brucker 85	< 200	mult
$\pi^+ \pi^- \nu_\mu X$		0.05 - 0.3	Dombeck 87	< 300	Schmitz 88	< 300	mult
10 - 260	Allasia 88	ν_μ Ne		$\Lambda \mu^- X$		$\Lambda \mu^- X$	
$\pi^+ 2\mu^- X + \pi^- \mu^- \mu^+ X$		$e^- X$		10 - 200	Baker 86	10 - 200	angp, cs, mass, p, pt
10 - 260	Allasia 85	10 - 200	Brucker 86	10 - 200	Baker 86	10 - 200	angp, cs, mass, p, pt
$2\pi^+ \mu^- X$		$\mu^- X$		$\bar{\Lambda} \mu^- X$		$\bar{\Lambda} \mu^- X$	
10 - 260	Allasia 88	10 - 100	Allport 89	10 - 200	Baker 86	10 - 200	cs
$2\pi^- \mu^- X$		10 - 200	Guy 87	$\Sigma^0 \mu^- X$		$\Sigma^0 \mu^- X$	
10 - 260	Allasia 88	10 - 200	Aderholz 86	10 - 200	Baker 86	10 - 200	cs
$\pi^+ \pi^- \mu^- X$		10 - 200	Baker 86	$\Xi^- \mu^- X$		$\Xi^- \mu^- X$	
10 - 260	Allasia 88	10 - 200	Baker 85	10 - 200	Baker 86	10 - 200	cs
$p(p's) \mu^- X$		14 - 200	Hanlon 85	10 - 200	Baker 86	10 - 200	cs
10 - 300	Guy 89	50	Baltay 85	10 - 200	Baker 86	10 - 200	cs
mult[p] μ^- mult[hadron ⁺] X		$\tau^- X$		mult[p] $\mu^- X$		mult[p] $\mu^- X$	
10 - 300	Guy 89	10 - 200	Brucker 86	10 - 300	Guy 89	10 - 300	cs, mult, p
$\pi^+ \mu^-$ (neutrals) odd-charged		mult[π^0] X		μ^- black X		μ^- black X	
10 - 260	Tenner 88	< 400	Wittek 88	10 - 200	Voyvodic 86	10 - 200	mult
$\pi^- \mu^-$ (neutrals) odd-charged		mult[hadron ⁺] X		μ^- grey X		μ^- grey X	
10 - 260	Tenner 88	< 400	Wittek 88	10 - 200	Ammosov 87C	10 - 200	angp, mult
$p \mu^-$ (neutrals) even-charged		mult[hadron ⁻] X		μ^- hadron ⁺ X		μ^- hadron ⁺ X	
10 - 260	Tenner 88	< 400	Wittek 88	10 - 200	Brucker 85	10 - 200	mult
$p \mu^-$ (neutrals) odd-charged		μ^- charged X		< 300	Schmitz 88	< 300	mult
10 - 260	Tenner 88	5 - 150	Rovetti 90	μ^- hadron ⁻ X		μ^- hadron ⁻ X	
$0p \mu^-$ (neutrals) even-charged		$\mu^- e^+ X$		10 - 200	Brucker 85	10 - 200	mult
10 - 260	Tenner 88	10 - 200	Baker 85	< 300	Schmitz 88	< 300	mult
$0p \mu^-$ (neutrals) odd-charged		$\mu^- e^- X$		μ^- mult[grey] X		μ^- mult[grey] X	
10 - 260	Tenner 88	10 - 200	Baker 85	10 - 200	Ammosov 87C	10 - 200	mult
$\rho^0 \mu^-$ mult[charged] (neutrals)		14 - 200	Baltay 85	μ^- mult[hadron ⁺] X		μ^- mult[hadron ⁺] X	
10 - 260	Allasia 85B	50	Baker 85C	10 - 100	Wittek 88	10 - 100	angp, mult, p
$p(\text{spect}) p \pi^0 \mu^-$		$\mu^- \mu^+ X$		μ^- mult[hadron ⁻] X		μ^- mult[hadron ⁻] X	
0.2 - 5	Kitagaki 86	10 - 100	Baton 85	10 - 100	Wittek 88	10 - 100	angp, mult, p
$n(\text{spect}) p \pi^+ \mu^-$		$2\mu^- X$		μ^- shower X		μ^- shower X	
0.2 - 5	Kitagaki 86	10 - 100	Baton 85	10 - 200	Ammosov 87C	10 - 200	mult
$p(\text{spect}) n \pi^+ \mu^-$		$\pi^0 \mu^- X$		10 - 200	Voyvodic 86	10 - 200	mult
0.2 - 5	Kitagaki 86	< 200	Schmitz 88	μ^- shower ⁺ X		μ^- shower ⁺ X	
$n(\text{spect}) p K^+ \mu^-$		$\pi^+ \mu^- X$		10 - 200	Ammosov 87C	10 - 200	p
1 - 5	Mann 86	10 - 200	Baker 86	μ^- shower ⁻ X		μ^- shower ⁻ X	
$p(\text{spect}) p K^0 \mu^-$		< 200	Schmitz 88	10 - 200	Ammosov 87C	10 - 200	mult, p, pt
1 - 5	Mann 86	10 - 200	Baker 86	Ne $\pi^0 \nu_\mu$		Ne $\pi^0 \nu_\mu$	
$n(\text{spect}) \Lambda K^+ \nu_\mu$		$\pi^- \mu^- X$		20	Baltay 86	20	cs
1 - 5	Mann 86	10 - 200	Baker 86				
$p(\text{spect}) \Lambda K^0 \nu_\mu$		< 200	Schmitz 88				
1 - 5	Mann 86	10 - 100	Wittek 89				
$p(\text{spect}) \Lambda K^+ \mu^-$							
1 - 5	Mann 86						

ν_μ Ne \rightarrow Ne $\pi^+ \mu^-$

ν_μ nucleus \rightarrow p grey X

ν_μ Ne	ν_μ Fe	ν_μ nucleus
Ne $\pi^+ \mu^-$ 10 - 100 Marage 89 angp. cs, p 40 - 300 Aderholz 89 cs	$\mu^- \mu^+ X$ 10 - 260 Burkhardt 85 cs 30 - 600 Foudas 88 cs, p, pt Merritt 87 ang. cs, pt	$D^+ \mu^- X$ 10 - 100 Ushida 86 10 - 200 Smart 86 cs, p Voyvodic 85 cs
Ne $\rho^+ \mu^-$ 10 - 320 Ballagh 86 angp. p	$2\mu^- X$ 10 - 260 Burkhardt 85 cs 30 - 600 Schumm 88 p, pt Merritt 87 ang. cs, pt Merritt 87B cs, p	$D^- \mu^- X$ 10 - 100 Ushida 86 $D_S^- \mu^- X$ 10 - 100 Ushida 86 $D_S^+ \mu^- X$ 10 - 100 Ushida 86 10 - 100 Smart 86 cs, p 10 - 200 Voyvodic 85 cs
$2\mu^- e^+ X$ 10 - 100 Baton 85 cs	μ^- charm X 30 - 600 Foudas 88	$D_S^+(2790)^+ \mu^- X$ 10 - 200 Batusov 88C $K^- \pi^+ X$ 10 - 200 Asratyan 87B mass Batusov 87 mass
$2\mu^- \mu^+ X$ 10 - 100 Baton 85 cs	ν_μ nucleus	$K_S \mu^- X$ 3 - 30 Ammosov 85D cs, mass, p, pt
$\pi^+ \pi^- \mu^- X$ 10 - 100 Wittek 87 ang. mass, p	charged X 0.1 - 1.1 Suzuki 88 flux 0.4 - 2 Bionta 88 cs	$K_S \pi^+ X$ 10 - 200 Asratyan 87B mass
$\rho^+ \pi^- \mu^- X$ 10 - 100 Wittek 89 mult. p, pt	$\nu_\mu X$ 0.2 - 20 Berger 89B flux Perdereau 89 flux Longuemare 88 flux	$p \mu^- X$ 3 - 30 Ammosov 85C angp. p
$\rho^- \pi^+ \mu^- X$ 10 - 100 Wittek 89 mult. p, pt	$\mu^- X$ 0.1 - 1.1 Suzuki 88 flux 0.2 - 20 Berger 89B flux Perdereau 89 flux Longuemare 88 flux Bionta 88 flux Nakanura 88 - Angelini 86 - Bergsma 88 cs Oyama 88B cs	$\Lambda_c^+ \mu^- X$ 10 - 100 Ushida 86 10 - 200 Smart 86 cs, p Voyvodic 85 cs
$K_S \mu^- \mu^+ X$ 10 - 100 Baton 85 cs, mass, p, pt	$\tau^- X$ 10 - 100 Ushida 86C cs	$\Lambda_c^+ \pi^+ X$ 10 - 200 Batusov 87 mass
$K_S 0K_S \mu^- X$ 10 - 200 Baker 86 cs	heavy-lepton ⁰ X 10 - 260 Dorenbosch 86B -	$\Sigma_c(2455)^0 \mu^- X$ 10 - 200 Voyvodic 86B -
$2K_S \mu^- X$ 10 - 200 Baker 86 cs	charged-meson X 10 - 200 Asratyan 87B -	$\Lambda \mu^- X$ 3 - 30 Ammosov 85D cs, mass, p, pt
$\Lambda 0\Lambda \mu^- X$ 10 - 200 Baker 86 cs	$p X$ 10 - 200 Ammar 89 angp. cor. cs, mult Ammar 88 angp. cs, mult. p	mult[p] $\mu^- X$ 3 - 30 Ammosov 85C mult
$\bar{\Lambda} 0\bar{\Lambda} \mu^- X$ 10 - 200 Baker 86 cs	$e^- e^+ X$ 10 - 260 Dorenbosch 86B angp. p	μ^- charm X 3 - 30 Ammosov 85D cs < 300 Schmitz 88 cs
$\Lambda \mu^- \mu^+ X + K_S \mu^- \mu^+ X$ 10 - 100 Baton 85 cs, mass, p, pt	$\mu^- \gamma X$ 3 - 30 Ammosov 88G ang. cs, p Grabosch 86B angp. cs, p	mult[shower] mult[charged] X < 500 Kitagaki 88 cor, mult
$\Lambda K_S \mu^- X$ 10 - 200 Baker 86 cs	$\mu^+ e^- X$ 10 - 260 Dorenbosch 86B angp. p	μ^- black X 10 - 200 Voyvodic 86 mult
$\bar{\Lambda} K_S \mu^- X$ 10 - 200 Baker 86 cs	$\mu^- e^+ X$ 10 - 200 Baker 85B ang. cs, p 10 - 260 Dorenbosch 86B angp. p	μ^- charged-hadron X 3 - 30 Ammosov 85C p 10 - 320 Ballagh 89 asym, p
$\Lambda \bar{\Lambda} \mu^- X$ 10 - 200 Baker 86 cs	$\mu^- \mu^+ X$ 10 - 260 Dorenbosch 86B angp. p	μ^- grey X 10 - 200 Ammosov 87C angp. mult Voyvodic 86 mult
$2\Lambda \mu^- X$ 10 - 200 Baker 86 cs	$\pi^0 \mu^- X$ 3 - 30 Baranov 85 mult	μ^- hadron ⁺ X 10 - 320 Ballagh 89 asym, p
$p(p^0) \mu^- X$ 10 - 300 Guy 89 cs, mult. p	$\pi^+ \mu^- X$ 3 - 30 Ammosov 85C p ? Ramin 85 mass	μ^- hadron ⁻ X 10 - 320 Ballagh 89 asym, p
mult[p] μ^- mult[hadron ⁻] X 10 - 300 Guy 89 a-dep. mult	$\pi^- \mu^- X$ 3 - 30 Ammosov 85C p	μ^- mult[grey] X 10 - 200 Ammosov 87C mult
μ^- mult[grey] shower ⁻ X 10 - 200 Ammosov 87C mult. p	$\rho^0 \mu^- X$ 10 - 100 Wittek 87 dme	μ^- shower X 10 - 200 Ammosov 87C mult Voyvodic 86 mult
μ^- hadron ⁺ hadron ⁻ X 10 - 200 Brucker 85 mult	$D^0 \mu^- X$ 10 - 100 Ushida 86B 10 - 200 Smart 86 cs, p Voyvodic 85 cs	μ^- shower ⁺ X 10 - 200 Ammosov 87C p
μ^- 2hadron (hadrons) 10 - 200 Brucker 85 mult	$\bar{D}^0 \mu^- X$ 10 - 100 Ushida 86B	μ^- shower ⁻ X 10 - 200 Ammosov 87C mult. p, pt
$2K_S \mu^- \mu^+ \lambda$ 10 - 100 Baton 85 cs, mass, p, pt		p black X 10 - 200 Ammar 88 cs, mult, p
$3K_S \mu^- X$ 10 - 200 Baker 86 cs		p grey X 10 - 200 Ammar 88 cs, mult, p
$\Lambda 2K_S \mu^- X$ 10 - 200 Baker 86 cs		
$2\Lambda K_S \mu^- X$ 10 - 200 Baker 86 cs		
ν_μ Fe		
$\nu_\mu X$ 10 - 160 Abramowicz 85 cs 160 Abramowicz 86 cs		
$\mu^- X$ 10 - 160 Berge 87 cs 10 - 260 Burkhardt 85 cs 30 - 230 Stockdale 85 cs 30 - 600 Merritt 87 ang. cs, pt 120 - 250 Reutens 85 cs 160 Abramowicz 86 cs		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions give an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_m in GeV. See the legend on page 153.

ν_μ nucleus $\rightarrow p$ mult[black] X $\bar{\nu}_\mu$ nucleon $\rightarrow \bar{\nu}_\mu$ X

ν_μ nucleus	ν_μ nucleus	$\bar{\nu}_\mu p$
p mult[black] X 10 - 200 Ammar 88 mult. p	n $2\pi^+ 2\pi^- \mu^- X$ 10 - 200 Voyvodic 86B mass	$\bar{\nu}_\mu$ hadron$^- X$ < 200 Schmitz 88 mult
p mult[grey] X 10 - 200 Ammar 88 mult. p	$K^+ K^- 2\pi^+ \pi^- \mu^- \gamma X$ 10 - 200 Asratyan 87C mass	μ^+ hadron$^+ X$ < 200 Schmitz 88 mult
p mult[shower] X 10 - 200 Ammar 88 mult. p	$\bar{\nu}_\mu e^-$	μ^+ hadron$^- X$ < 200 Schmitz 88 mult
p shower X 10 - 200 Ammar 88 cs. mult. p	$e^- \bar{\nu}_\mu$ 1.23 Abe 89E angp. cs 1.4 Ahrens 85 cs 10 - 160 Dorenbosch 89 const. cs Geiregat 89 const. cs	n $\pi^0 \mu^+$ 3 - 30 Grabosch 89 angp. cs. mass < 30 Schmitz 88 cs
mult[p] black X 10 - 200 Ammar 89 angp. cor. mult	$\bar{\nu}_\mu p$	p $\pi^- \mu^+$ 3 - 30 Grabosch 89 angp. cs. mass
mult[p] grey X 10 - 200 Ammar 89 angp. cor. mult	$\bar{\nu}_\mu X$ 5 - 150 Jones 86 cs 10 - 260 Allasia 88C cs	5 - 150 Jones 89B p < 30 Schmitz 88 cs
mult[p] shower X 10 - 200 Ammar 89 angp. cor. mult	$\mu^+ X$ 3 - 30 Brunner 89 cs. p 5 - 150 Jones 89C p Jones 87 p Jones 86 p Grassler 85 mass Aderholz 86 cs 10 - 100 Asratyan 85 a-dep. p 10 - 200 Asratyan 85B angp. cs. p Allasia 88C cs Allasia 85C p	$\Lambda \pi^0 \mu^+$ 10 - 200 Ammosov 86F cs n $\bar{K}^0 \mu^+$ 10 - 200 Ammosov 86F cs $\Lambda K^0 \mu^+$ 10 - 200 Ammosov 86F cs $\pi^\pm \mu^+$ hadron(s) 5 - 150 Jones 90 mult. p $\pi^+ \mu^+$ hadron(s) 5 - 150 Jones 90 mult. p $\pi^- \mu^+$ hadron(s) 5 - 150 Jones 90 mult. p
μ^- fragt (neutrals) < 500 Kitagaki 88 a-dep. cs. p	p $\bar{\nu}_\mu$ < 12 Ahrens 87C angp. cs Abe 86B angp. cs	p (p's) $\mu^+ X$ 10 - 300 Guy 89 cs. mult. p
nucleus $\pi^0 \nu_\mu$ 3 - 30 Grabosch 86 angp. cs. p 10 - 260 Bergsma 85B cs	n μ^+ > 0.15 Allison 89B cs 0.2 - 2 Losocco 87 cs 1.5 Krizmanic 89 cs 3 - 30 Grabosch 86D angp. cs. p	n $\bar{K}^0 \pi^0 \mu^+ + n \bar{K}^0 2\pi^0 \mu^+ +$ n $\bar{K}^0 3\pi^0 \mu^+$ 10 - 200 Ammosov 86F cs $\Lambda K^0 \pi^0 \mu^+ + \Lambda K^0 2\pi^0 \mu^+$ 10 - 200 Ammosov 86F cs
nucleus $\pi^+ \mu^-$ 3 - 30 Grabosch 86 angp. cs. p	n μ^+ < 12 Belikov 85 cs Belikov 83B angp. cs Ahrens 88 p Ahrens 86 p	$\bar{\nu}_\mu n$
$\pi^+ \pi^- \mu^- X$ 10 - 100 Wittek 87 ang. mass. p	$\Lambda \mu^+$ 10 - 200 Ammosov 86B cs. p Ammosov 86F cs. p	$\bar{\nu}_\mu X$ 10 - 260 Allasia 88C cs
$K^- \pi^+ \pi^0 X$ 10 - 200 Asratyan 87B mass	$\Sigma C \mu^+$ 10 - 200 Ammosov 86F cs	$\mu^+ X$ 3 - 30 Brunner 89 cs. p 10 - 200 Asratyan 85 a-dep. p Asratyan 85B angp. cs. p
$K^- 2\pi^+ X$ 10 - 200 Asratyan 87B mass Batusov 87 mass	$\pi^+ \mu^+ X$ 5 - 150 Grassler 85 p < 200 Schmitz 88 mult	$\rho^0 \mu^+ X$ 10 - 260 Allasia 85B mult
$\bar{K}^0 \pi^+ \pi^- X$ 10 - 200 Batusov 87 mass	$\pi^- \mu^+ X$ 5 - 150 Grassler 85 p < 200 Schmitz 88 mult	$K_S \mu^+ X$ 10 - 260 Allasia 85D cs
$K_S \mu^- e^+ X$ 10 - 200 Baker 85B cs. mass. p	$\rho^0 \mu^+ X$ 5 - 150 Grassler 85 mass. mult. p. p. pt 10 - 260 Allasia 85B mult < 200 Schmitz 88 pol	$\Lambda \mu^+ X$ 10 - 260 Allasia 85D cs. p
$K_S \pi^+ \pi^0 X$ 10 - 200 Asratyan 87B mass	$\bar{D}^0 \mu^+ X$ 5 - 150 Jones 87B cs	$\Sigma(1385 P_{13})^+ \mu^+ X$ 10 - 260 Allasia 85D cs
$K_S \pi^+ \pi^- X$ 10 - 200 Asratyan 87B mass	$D^+(2010)^- \mu^+ X$ 5 - 150 Jones 87B cs	$\Sigma(1385 P_{13})^- \mu^+ X$ 10 - 260 Allasia 85D cs
p $\pi^+ \mu^- X$ 3 - 30 Ammosov 85C p	$K_S \mu^+ X$ 10 - 260 Allasia 85D cs	$\bar{\nu}_\mu$ hadron$^+ X$ < 200 Schmitz 88 mult
p $\pi^- \mu^- X$ 3 - 30 Ammosov 85C p	$\Lambda \mu^+ X$ 5 - 150 Jones 85B pol 10 - 260 Allasia 85D cs	$\bar{\nu}_\mu$ hadron$^- X$ < 200 Schmitz 88 mult
$\Lambda_S^+ \pi^- \mu^- X$ 10 - 200 Voyvodic 86B mass	$\Sigma(1385 P_{13})^+ \mu^+ X$ 10 - 260 Allasia 85D cs	μ^+ hadron$^+ X$ < 200 Schmitz 88 mult
$\Lambda \mu^- e^+ X$ 10 - 200 Baker 85B cs. mass. p	$\Sigma(1385 P_{13})^- \mu^+ X$ 10 - 260 Allasia 85D cs	μ^+ hadron$^- X$ < 200 Schmitz 88 mult
$\Lambda K_S \mu^- X$ 3 - 30 Ammosov 85D cs	$\Sigma(1385 P_{13})^- \mu^+ X$ 10 - 260 Allasia 85D cs	n $\pi^- \mu^+$ 3 - 30 Grabosch 89 angp. cs. mass < 30 Schmitz 88 cs
2$\Lambda \mu^- X$ 3 - 30 Ammosov 85D cs	mult[p] $\mu^+ X$ 10 - 300 Guy 89 cs. mult. p	$\bar{\nu}_\mu$ nucleon
μ^- mult[grey] shower$^- X$ 10 - 200 Ammosov 87C mult. p	$\bar{\nu}_\mu$ hadron$^+ X$ < 200 Schmitz 88 mult	$\bar{\nu}_\mu X$ 3 - 30 Ammosov 86I cs
μ^- charged (charged) (neutrals) < 500 Kitagaki 88 a-dep. cs. p		
$\pi^0 \mu^-$ charged (neutrals) 3 - 30 Baranov 85 mult		
$K^- 2\pi^+ \pi^- X$ 10 - 200 Asratyan 87B mass		
$K_S \pi^0 \mu^- e^+ X$ 10 - 200 Baker 85B mass		
$K_S \pi^- \mu^- e^+ X$? Baker 85B -		
p $K^- 2\pi^+ X$ 10 - 200 Batusov 87 mass		
$K^+ K^- \pi^+ \mu^- \gamma X$ 10 - 200 Asratyan 87C mass		
$\Sigma^+ \pi^+ 2\pi^- \mu^- X$ 10 - 200 Voyvodic 86B mass		

$\bar{\nu}_\mu$ nucleon $\rightarrow \bar{\nu}_\mu$ X

$\bar{\nu}_\mu$ Ne $\rightarrow \rho^- \mu^+ X$

$\bar{\nu}_\mu$ nucleon			$\bar{\nu}_\mu$ nucleon			$\bar{\nu}_\mu$ deuteron		
$\bar{\nu}_\mu$ X			μ^+ charm X			μ^+ q X		
10 - 160	Ammosov 85 Blondel 90 Allaby 89 Allaby 88C Abramowicz 85	cs const. cs p p cs	10 - 200 30 - 600	Ushida 88B Foudas 88B	cs	10 - 260	Allasia 88B	cs
30 - 230	Reutens 90 Bogert 85B	const. cs cs	μ^+ hadron ⁻ X	< 230	Mukherjee 86	μ^+ (neutrals) even-charged	10 - 260	Tenner 88
60	Bogert 85	const. cs	μ^+ hadron ⁻ X	< 230	Mukherjee 86	μ^+ (neutrals) odd-charged	10 - 260	Tenner 88
165	Bogert 85	p	nucleon $\rho^- \mu^+$	10 - 200	Ammosov 84G	$2\pi^+ \bar{\nu}_\mu$ X	10 - 260	Allasia 88
< 230	Bogert 86	p	$\pi^- \mu^+$ charged ⁺ X	10 - 200	Ammosov 86D	$2\pi^- \bar{\nu}_\mu$ X	10 - 260	Allasia 88
μ^+ X			π^+ $\pi^- \mu^+$ X	10 - 200	Ammosov 86G	π^+ $\pi^- \bar{\nu}_\mu$ X	10 - 260	Allasia 88
3 - 30	Ammosov 86I Ammosov 85 Ammosov 85B	cs cs p	$D_S^- \mu^+ \gamma$ X	10 - 200	Asratyan 87C	$2\pi^+ \mu^+$ X	10 - 260	Allasia 88
10 - 100	Varvell 87	p	$D_S^- \mu^+ \gamma$ X	10 - 200	Asratyan 87C	$2\pi^- \mu^+$ X	10 - 260	Allasia 88
10 - 160	Blondel 90 Allaby 88 Berge 87	const. cs cs cs	$D_S^- \mu^+ \gamma$ X	10 - 200	Asratyan 87C	π^+ $\mu^- \mu^+$ X + $\pi^- 2\mu^+$ X	10 - 260	Allasia 85
10 - 200	Abramowicz 85 Ammosov 88 Ushida 88B Ammosov 87B Asratyan 87 Diemoe 86	cs p cs p cs p	$D_S^+ \mu^+ \gamma$ X	10 - 200	Ammosov 86	π^+ $\pi^- \mu^+$ X	10 - 260	Allasia 88
10 - 260	Asratyan 85	a-dep. p	$D_S^+ \mu^+ \gamma$ X	10 - 200	Ammosov 86	p (p^0) μ^+ X	10 - 300	Guy 89
30 - 230	Bergsma 84C	const. cs	$D_S^+ \mu^+ \gamma$ X	10 - 200	Asratyan 87C	mult[ρ] μ^+ mult[hadron ⁻] X	10 - 300	Guy 89
60	Reutens 90	const. cs	$D_S^+ \mu^+ \gamma$ X	10 - 200	Asratyan 87C	π^+ μ^+ (neutrals) odd-charged	10 - 260	Tenner 88
< 230	Bogert 85B Bogert 85	cs p	$D_S^+ (2547)^- \mu^+ \gamma$ X	10 - 200	Asratyan 87C	$\pi^- \mu^+$ (neutrals) odd-charged	10 - 260	Tenner 88
mult[hadron ⁻] X	Baldin 87	col. p	μ^+ hadron jet X	< 230	Mukherjee 86	$\pi^- \mu^+$ (neutrals) odd-charged	10 - 260	Tenner 88
5.7 - 205			$\pi^- \mu^+ 2\gamma$ X	10 - 200	Ammosov 84G	$p \mu^+$ (neutrals) even-charged	10 - 260	Tenner 88
μ^+ charged ⁺ X			$\phi \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$p \mu^+$ (neutrals) odd-charged	10 - 260	Tenner 88
10 - 200	Ammosov 87 Ammosov 86D	p p	$K_S K^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$0p \mu^+$ (neutrals) even-charged	10 - 260	Tenner 88
μ^+ charged ⁻ X			$\phi \pi^0 \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$0p \mu^+$ (neutrals) odd-charged	10 - 260	Tenner 88
10 - 200	Ammosov 87 Ammosov 86D	p p	$K_S K^- \pi^0 \mu^+ \gamma$ X	10 - 200	Ammosov 86	$\rho^0 \mu^+$ mult[charged] (neutrals)	10 - 260	Allasia 85B
$\mu^- \mu^+$ X			$\phi 2\pi^+ \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$\bar{\nu}_\mu$ Ne		
30 - 230	Lang 87	angp. cs, mass, p, pt	$K^+ K_S 2\pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	μ^+ X	10 - 100	Allport 89
30 - 600	Foudas 88B	cs, p, pt	$K^+ K_S \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	μ^+ X	10 - 100	Baton 85
$2\mu^+$ X			$K_S K^- \pi^+ \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	μ^+ X	10 - 100	Baton 85
30 - 230	Lang 87	angp. cs, mass, p, pt	$\phi 2\pi^+ \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	μ^+ X	10 - 100	Baton 85
$\pi^\pm \mu^+$ X			$K^+ K_S 2\pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$\mu^- \mu^+$ X	10 - 100	Baton 85
10 - 200	Baldin 87B	p	$K^+ K_S \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$\mu^- \mu^+$ X	10 - 100	Baton 85
π^+ μ^+ X			$K_S K^- \pi^+ \pi^- \mu^+ \gamma$ X	10 - 200	Ammosov 86	$\mu^- \mu^+$ X	10 - 100	Baton 85
10 - 200	Ammosov 86E	mult, pt	$\bar{\nu}_\mu$ deuteron			$2\mu^+$ X	10 - 100	Baton 85
$\pi^- \mu^+$ X			$\bar{\nu}_\mu$ X	10 - 260	Allasia 88C	$\pi^0 \mu^+$ X	< 200	Schmitz 88
10 - 200	Ammosov 86E	mult, pt	μ^+ X	10 - 100	Allport 89 Guy 87	π^+ μ^+ X	< 200	Schmitz 88
$\rho^0 \mu^+$ X			μ^+ X	10 - 100	Allasia 88C Allasia 85C	$\pi^- \mu^+$ X	10 - 100	Fitch 85
10 - 200	Ammosov 87 Ammosov 86D Ammosov 86E mass, mult. p, pt, pol	p p p p, pt, pol	$\Delta(1232 P_{33})^{++}$ X	10 - 260	Allasia 86	$\eta \mu^+$ X	10 - 100	Wittek 89
$D_S^- \mu^+$ X			$\rho^0 \mu^+$ X	10 - 260	Allasia 85B	ρ^+ μ^+ X	< 200	Schmitz 88
10 - 200	Asratyan 87	cs	μ^+ heavy-lepton ⁰ X	10 - 260	Allasia 85	$\rho^- \mu^+$ X	< 200	Schmitz 88
$D_S^+ \mu^+$ X			$K^*(892)^+ \mu^+$ X	10 - 260	Allasia 85D	$\rho^- \mu^+$ X	< 200	Schmitz 88
10 - 200	Ammosov 86	p	$K^*(892)^- \mu^+$ X	10 - 260	Allasia 85D	$\rho^- \mu^+$ X	< 200	Schmitz 88
$D_S^- \mu^+$ X			mult[p] μ^+ X	10 - 300	Guy 89	$\bar{\nu}_\mu$ q X	10 - 260	Allasia 88B
10 - 200	Ammosov 86 Asratyan 86 Asratyan 86B	cs mass, mult. p, pt	μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
$D_S^+ (2547)^+ \mu^+$ X			μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
10 - 200	Ammosov 86	cs	μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
$D_S^+ (2547)^- \mu^+$ X			μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
10 - 200	Ammosov 86	cs	μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
$K^*(892)^0 \mu^+$ X			μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
10 - 200	Ammosov 87 Ammosov 86D	p p	μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
μ^+ charged-hadron X			μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt
10 - 200	Ammosov 84H	pt	μ^+ charged-hadron X	10 - 200	Ammosov 84H	10 - 200	Ammosov 84H	pt

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\bar{\nu}_\mu \text{Ne} \rightarrow \rho^0 \mu^+ X$ $e^- \gamma \rightarrow \eta' e^-$

$\bar{\nu}_\mu \text{Ne}$	$\bar{\nu}_\mu \text{Ne}$	$\bar{\nu}_\mu \text{nucleus}$
$\rho^0 \mu^+ X$ 10 - 100 < 200	Wittek 89 mult. p. pt Wittek 87 dme Schmitz 88 mult. pol	$2K_S \mu^+ e^- X$ 10 - 100 Baton 85 cs. mass. p. pt
$\omega \mu^+ X$ 10 - 100	Wittek 89 mult. p. pt	$\Lambda K_S \mu^+ e^- X$ 10 - 100 Baton 85 cs. mass. p. pt
$f_2(1270) \mu^+ X$ 10 - 100	Wittek 89 mult. p. pt	$\Lambda K_S \mu^- \mu^+ X$ 10 - 100 Baton 85 cs. mass. p. pt
$\text{mult}[\pi^+] \mu^+ X$ 10 - 100	Wittek 88 angp. mult. p.	$\bar{\nu}_\mu \text{Fe}$
$\text{mult}[\pi^-] \mu^+ X$ 10 - 100	Wittek 88 angp. mult. p.	$\bar{\nu}_\mu X$ 10 - 160 Abramowicz 85 cs
$\text{mult}[\pi^0] \mu^+ X$ 10 - 100	Wittek 88 angp. mult. p.	$\mu^+ X$ 10 - 160 Berge 87 cs Abramowicz 85 cs Burkhardt 85 cs Stockdale 85 cs Merritt 87 ang. cs. pt Reutens 85 cs
$D_S^- \mu^+ X$ < 300	Schmitz 88 cs	$\mu^- \mu^+ X$ 10 - 260 Burkhardt 85 cs Foudas 88 cs. p. pt Merritt 87 ang. cs. pt
$p \mu^+ X$ < 200 < 300	Schmitz 88 mult Schmitz 88 asym	$2\mu^+ X$ 10 - 260 Burkhardt 85 cs Schumm 88 p. pt Merritt 87 ang. cs. pt Merritt 87B cs. p
$\text{mult}[p] \mu^+ X$ 10 - 300	Guy 89 cs. mult. p.	$\mu^+ \text{charm} X$ 30 - 600 Foudas 88
$\mu^+ \text{mult}[\text{hadron}^+] X$ 10 - 100	Wittek 88 angp. mult. p.	$\bar{\nu}_\mu \text{nucleus}$
$\mu^+ \text{mult}[\text{hadron}^-] X$ 10 - 100	Wittek 88 angp. mult. p.	charged X 0.1 - 1.1 Suzuki 88 flux 0.4 - 2 Bionta 88 cs
Ne $\pi^- \mu^+$ 10 - 100	Marage 86 angp. cs. mass. p Ammosov 86C angp. cs Aderholz 89 cs	$\bar{\nu}_\mu X$ 0.2 - 20 Berger 89B flux Perdereau 89 flux Longuemare 88 flux
Ne $\rho^- \mu^+$ 10 - 100	Marage 87 cs	$\mu^+ X$ 0.1 - 1.1 Suzuki 88 flux 0.2 - 20 Berger 89B flux Perdereau 89 flux Longuemare 88 flux Bionta 88 cs Nakamura 88 cs Bergsma 88 cs Oyama 88B cs
Ne $\alpha_1(1260)^- \mu^+$ 10 - 200	Ammosov 88C cs	$\tau^- X$ 10 - 100 Ushida 86C cs
$\pi^+ \pi^- \mu^+ X$ 10 - 100	Wittek 87 ang. mass. p	charmed-meson X 10 - 200 Asratyan 87B
$\rho^+ \pi^- \mu^+ X$ 10 - 100	Wittek 89 mult. p. pt	$\pi^0 \mu^+ X$ 3 - 30 Baranov 85 mult
$\phi \pi^- \mu^+ X$ < 300	Schmitz 88 mass	$\pi^- \mu^+ X$? Ramm 85 mass
$K_S \mu^+ e^- X$ 10 - 100	Baton 85 cs. mass. p. pt	$\rho^0 \mu^+ X$ 10 - 100 Wittek 87 dme
$K_S \mu^- \mu^+ X$ 10 - 100	Baton 85 cs. mass. p. pt	$D^*(2010)^- \mu^+ X$ 10 - 200 Ammosov 87F cs
$\Lambda \mu^+ e^- X$ 10 - 100	Baton 85 cs. mass. p. pt	$K^- \pi^+ X$ 10 - 200 Asratyan 87B mass
$\Lambda \mu^+ e^- X + K_S \mu^+ e^- X$ 10 - 100	Baton 85 cs. mass. p. pt	$K_S \pi^+ X$ 10 - 200 Asratyan 87B mass
$\Lambda \mu^- \mu^+ X$ 10 - 100	Baton 85 cs. mass. p. pt	$p \mu^+ X$ 3 - 30 Ammosov 85C angp. p
$\Lambda \mu^- \mu^+ X + K_S \mu^- \mu^+ X$ 10 - 100	Baton 85 cs. mass. p. pt	$\text{mult}[p] \mu^+ X$ 3 - 30 Ammosov 85C mult
$p (p^{\prime}s) \mu^+ X$ 10 - 300	Guy 89 cs. mult. p	nucleus $\pi^0 \bar{\nu}_\mu$ 10 - 260 Bergsma 85B cs
$\text{mult}[p] \mu^+ \text{mult}[\text{hadron}^-] X$ 10 - 300	Guy 89 a-dep. mult	nucleus $\pi^- \mu^+$ 3 - 30 Grabosch 86 angp. cs. p
Ne $\pi^0 \pi^- \mu^+$ 10 - 100	Marage 87 angp. p	$\pi^+ \pi^- \mu^+ X$ 10 - 100 Wittek 87 ang. mass. p
		$\phi \mu^+ \gamma X$ 10 - 200 Asratyan 86 mass Asratyan 86B mass
		$\phi \pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K^- \pi^+ \pi^0 X$ 10 - 200 Asratyan 87B mass
		$K^- 2\pi^+ X$ 10 - 200 Asratyan 87B mass
		$K_S \pi^+ \pi^0 X$ 10 - 200 Asratyan 87B mass
		$K_S \pi^+ \pi^- X$ 10 - 200 Asratyan 87B mass
		$K_S K^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$\pi^0 \mu^+ \text{charged (neutrals)}$ 3 - 30 Baranov 85 mult
		nucleus $\mu^- \mu^+ \bar{\nu}_\mu$ 10 - 160 Geiregat 90 cs
		$\phi \pi^0 \pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K^+ 2\pi^- \mu^+ X$ 10 - 200 Ammosov 87F mass. p
		$K^+ \pi^+ \pi^- \mu^+ X$ 10 - 200 Ammosov 87F mass. p
		$K^- 2\pi^+ \pi^- X$ 10 - 200 Asratyan 87B mass
		$K^+ K^- \pi^- \mu^+ X$ 10 - 200 Asratyan 87 mass
		$K_S K^- \pi^0 \mu^+ X$ 10 - 200 Asratyan 87C mass
		$\phi \pi^+ 2\pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K^+ K^- \pi^- \mu^+ \gamma X$ 10 - 200 Asratyan 86 mass Asratyan 86B mass
		$K^+ K_S 2\pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K_S K^- \pi^+ \pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$\nu_\tau \text{nucleus}$
		$\tau^- X$ < 400 Talebzadeh 87 cs
		$\bar{\nu}_\tau \text{nucleus}$
		$\tau^+ X$ < 400 Talebzadeh 87 cs
		$e^- \gamma$
		e^{*-} (14 - 28) Bonneaud 86 cs
		$e^- X$ (2 - 13) 14.5 Aihara 87B cs Aihara 87F p Aihara 86B p 16.5 - 17.5 Berger 87C p 17.3 Sasaki 89 p 25 - 28 Sasaki 88 p Berger 87B col. const. p Kolanoski 86 const. p
		ηe^- ? Berger 87B p
		$\eta' e^-$ 14.5 Aihara 88D cs Gidal 88B cs Landsberg 85 p
		?

$e^- \gamma \rightarrow f_2(1270) e^-$

$e^- \text{Be} \rightarrow e^- \text{X}$

$e^- \gamma$		$e^- \gamma$		$e^- \text{deuteron}$	
$f_2(1270) e^-$	Berger 87B	$K^- 2\pi^+ \pi^0 e^- \text{X}$	Bartel 87B	$n(\text{spect}) n \pi^+ e^-$	Vapenikova 88
?		18.3	mass	4.6	angp. mass
$f_1(1285) e^-$	Aihara 88D	$e^- e^-$		$2n \pi^+ e^-$	Gilman 90
14.5	Aihara 88E	$2e^-$	Brefeld 84	0.6455	cs
	Gidal 88	0.85 - 2	Salvini 88		
	Gidal 88B	100.2 - 1184		$e^- {}^3\text{H}$	
?	Ouldsaada 88B			${}^3\text{H} e^-$	Juster 85
	Toki 88B			0.1905 - 0.6855	Beck 87
$f_1(1420) e^-$	Hill 89	$e^- p$	Sealock 89	?	angp. p
3 - 12	Aihara 86J	$e^- \text{X}$			angp
14.5	Aihara 88E	0.96 - 1.5		$e^- {}^3\text{He}$	
?	Ouldsaada 88B	1 - 400	Berger 86B	$e^- \text{X}$	Marchand 85
	Toki 88B	120 - 280	Nachtmann 85	0.1205 - 0.6675	Akhmerov 87
		?	Klein 84B	0.538	angp
$\eta(1440) e^-$	Aihara 86J	$p e^-$	Bosted 89	${}^3\text{He} e^-$	Ottermann 85
14.5		0.504 - 1.286	Berger 86B	0.1055 - 0.3205	Barreau 86
$\eta_c(1S) e^-$	Ouldsaada 88B	1 - 400	Arnold 86	500	Beck 87
?		5 - 21.5	Walker 89	?	angp
$\text{meson}^0 e^-$	Aihara 88D	$\Delta(1232 F_{33}) e^- \text{X}$	Sealock 89	$\text{deuteron } p e^-$	Keizer 85
14.5	Gidal 88	$n \pi^+ e^-$		0.3908	cs. p
?	Toki 88B	0.96 - 1.5		$2p n e^-$	Barreau 86
$D^*(2010)^+ e^- \text{X}$	Bartel 87B	0.6455	Gilman 90	500	p
18.3		4.6	Vapenikova 88		
$D^*(2010)^- e^- \text{X}$	Bartel 87B	$e^- n$		$e^- {}^4\text{He}$	
18.3		$p \pi^- e^-$	Vapenikova 88	$e^- \text{X}$	Dementy 88
$e^- \text{jet X}$	Berger 87B	4.6	angp. mass	0.8 - 1.2	Sealock 89
?				0.96 - 1.5	angp. cs. mass
$2e^- e^+$	Blinov 87	$e^- \text{nucleon}$		1.174	Kuplennikov 90
5		neutral X	Bjorken 88	?	Day 87
$\mu^- \mu^+ e^-$	Berger 85B	20		$\Delta(1232 F_{33}) e^- \text{X}$	Sealock 89
17.5	ang. angp. cs. p. pt	$e^- \text{X}$	Berger 86B	0.96 - 1.5	
?	Berger 87B	1 - 400		${}^3\text{H } p e^-$	Spahn 89
$\rho^+ \rho^- e^-$	Toki 88B	$\text{nucleon } e^- \text{axion}$	Davier 86	0.183	angp
?		1.5		${}^3\text{He } n e^-$	Spahn 89
$2\rho^0 e^-$	Berger 88B	$e^- \text{deuteron}$		0.183	angp
17.4	Braunschweig 88F	$e^- \text{X}$	Berger 86B	$e^- \text{He}$	
17.5 - 23.3	Toki 88B	1 - 400	Whitlow 90	$e^- \text{X}$	Gomez 85
?		3.7 - 18	Dasu 88	8	angp. p
$2\omega e^-$	Toki 88B	3.75 - 19.5	Dasu 87	$\text{He } e^-$	Ottermann 85
?			Gomez 85	0.1055 - 0.3205	angp
$2\phi e^-$	Toki 88B	$\text{deuteron } e^-$		$e^- {}^6\text{Li}$	
?		0.2005 - 0.6505	Platchkov 89	$e^- \text{X}$	Bagdasaryan 85
$K^+ K^- e^- + \pi^+ \pi^- e^-$	Boyer 86	0.3	Dmitriov 85	1.54 - 2	angp. p
14.5		0.3 - 0.7	Auffret 85B	$e^- {}^9\text{Be}$	
$K^*(892)^0 \bar{K}^*(892)^0 e^-$	Toki 88B	0.4	Voitsekhovsk 86	${}^9\text{Be} e^-$	Hiel 89
?		0.5 - 1.2	Cramer 85	0.3	angp. pol
$K^*(892)^+ K^*(892)^- e^-$	Toki 88B	0.65 - 0.85	Garcon 89	$p e^- \text{X}$	Bagdasaryan 88
?		0.7 - 1.3	Bosted 89	1.45 - 2.13	Bagdasaryan 85B
$D^0 \pi^+ e^- \text{X}$	Bartel 87B	2	Arnold 87	1.54 - 2	angp. p
18.3		2.5	Meyer 88B		angp. p
$\bar{D}^0 \pi^- e^- \text{X}$	Bartel 87B	$p n e^-$	Schiablitzy 89	$e^- \text{Be}$	
18.3		0.18	Mostovoj 87	Li X	2 - 4.5
$e^- 2\text{jet X}$	Berger 87B	0.3 - 0.7	Auffret 85	Be X	2 - 4.5
?		0.538 - 0.779	Esaulov 87	Bor X	2 - 4.5
$\eta \pi^+ \pi^- e^-$	Gidal 88B	0.843 - 1.189	Esaulov 86	$e^- \text{X}$	1.54 - 2
14.5	Toki 88B	1.465 - 1.57	Arnold 88		angp. p
?		50	Breuker 85		angp. p
$\rho^0 \pi^+ \pi^- e^-$	Gidal 88B	?	Barreau 86		angp. p
17.5 - 23.3	Braunschweig 88F	$p(\text{spect}) p \pi^- e^-$	Arnold 89		angp. p
?		4.6	Vapenikova 88		angp. p
$K^+ K_S \pi^- e^-$	Toki 88B	$2p \pi^- e^-$	Gilman 90		cs
14.5		0.6455			
$K^+ K_S \pi^- e^- + K_S K^- \pi^+ e^-$	Gidal 88				
14.5					
$2\pi^+ 2\pi^- e^-$	Braunschweig 88F				
17.5 - 23.3					
$4\pi e^-$	Berger 87B				
?					
$K^+ \pi^0 2\pi^- e^- \text{X}$	Bartel 87B				
18.3					

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153

$e^- \text{Be} \rightarrow \text{He X}$ $e^- \text{Au} \rightarrow \text{Li X}$

$e^- \text{Be}$		$e^- {}^{40}\text{Ca}$		$e^- {}^{90}\text{Zr}$	
He X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	$e^- \text{X}$ 0.12 - 0.695	Meziani 85 angp. p	He X 0.0205 - 0.1305	Dodge 85 angp. p
$e^- {}^{12}\text{C}$		$e^- {}^{46}\text{Ca}$		$p e^- \text{X}$ 0.0505 - 0.1005	Dodge 85 angp. p
$e^- \text{X}$ 1.54 - 2 1.67 - 2.13 ?	Bagdasaryan 85 Vartapetyan 89 Day 87 Hicks 86 angp. p a-dep. angp.	$e^- \text{X}$ 0.12 - 0.695	Meziani 85 angp. p	He $e^- \text{X}$ 0.0505 - 0.1005	Dodge 85 angp. p
${}^{12}\text{C} e^-$ 0.69	Kalantarnaye 89 cs	${}^{46}\text{Ca} e^- \gamma$ 0.2405	Wise 85 angp. p. pwa	$e^- {}^{92}\text{Zr}$	
$p e^- \text{X}$ 1.45 - 2.13	Bagdasaryan 88 angp. p	$e^- \text{Fe}$		$p \text{X}$ 0.0205 - 0.1005	Dodge 85 angp. p
$e^- \text{C}$		$e^- \text{X}$ 0.653 - 1.65 0.96 - 1.5	Baran 88B Sealock 89 angp. cs. p	He X 0.0205 - 0.1005	Dodge 85 angp. p
$e^- \text{X}$ 0.653 - 1.65 0.96 - 1.5	Baran 88B Sealock 89 angp. cs. p	3.7 - 18 3.75 - 19.5	Whitlow 90 Dasu 88 Dasu 87 Dasu 87B Gomez 85 angp. cs. mass a-dep. angp. p a-dep. angp. p	$p e^- \text{X}$ 0.0505 - 0.1005	Dodge 85 angp. p
$p e^- \text{X}$ 0.78	Geesaman 89 a-dep. angp. p	8		He $e^- \text{X}$ 0.0505 - 0.1005	Dodge 85 angp. p
$\Delta(1232 P_{33}) e^- \text{X}$ 0.96 - 1.5	Sealock 89	$\Delta(1232 P_{33}) e^- \text{X}$ 0.96 - 1.5	Sealock 89	He $e^- \text{X}$ 0.0505 - 0.1005	Dodge 85 angp. p
$e^- {}^{13}\text{C}$		$e^- {}^{56}\text{Fe}$		$e^- \text{Ag}$	
$e^- \text{X}$?	Hicks 86 angp.	$e^- \text{X}$ 0.12 - 0.695 ?	Meziani 85 Day 87 angp. p a-dep. p	Li X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p
$e^- {}^{14}\text{N}$		$e^- \text{Ni}$		Be X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p
$e^- \text{X}$?	Hicks 86 angp.	Li X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	Bor X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p
${}^{14}\text{C} \pi^+ e^-$ 0.1735	Roehrich 85 angp. dme	Be X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	Bor X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p
$e^- \text{Al}$		Bor X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	He X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p
Li X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	He X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	$p e^- \text{X}$ 0.78	Geesaman 89 a-dep. angp. p
Be X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	$e^- \text{Cu}$		$e^- {}^{163}\text{Ho}$	
Bor X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	Li X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	γX 0	Yasumi 85 p
$e^- \text{X}$ 8	Gomez 85 angp. p	Be X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	${}^{163}\text{Dy}^* \nu_e$ 0	Yasumi 86 -
He X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	Bor X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	$e^- \text{Ta}$	
$p e^- \text{X}$ 0.78	Geesaman 89 a-dep. angp. p	He X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	$p e^- \text{X}$ 0.78	Geesaman 89 a-dep. angp. p
$e^- {}^{27}\text{Al}$		axion X 9 - 22.4	Riordan 87 cs. p	$e^- \text{Wt}$	
$e^- \text{X}$?	Day 87 a-dep. p	He X 2 - 4.5	Aivazyan 86 Aivazyan 86B a-dep. angp. p	neutral X 2.5	Konaka 86 cs
$e^- {}^{28}\text{Si}$		axion X 9 - 22.4	Riordan 87 cs	$e^+ \text{X}$ 9 - 22.4	Riordan 87 cs. p
$e^- \text{X}$ 1.54 - 2	Bagdasaryan 85 angp. p	$e^- \text{Ge}$		$e^- \text{X}$ 0.96 - 1.5	Sealock 89 angp. cs. mass
$p e^- \text{X}$ 1.54 - 2	Bagdasaryan 85B angp. p	Ge $e^- \gamma$ 150	Bellucem 85 p	axion X 2.5 9 - 22.4	Konaka 86 Riordan 87 cs cs
$e^- \text{Si}$		$e^- {}^{90}\text{Zr}$		$e^- e^+ \text{X}$ 2.5	Konaka 86 cs
Si e^- 0.76	Adeishvili 87 angp.	$p \text{X}$ 0.0205 - 0.1305	Dodge 85 angp. p	$\Delta(1232 P_{33}) e^- \text{X}$ 0.96 - 1.5	Sealock 89
				Wt $e^- \text{higgs}$ 1.6	Davier 89 cs
				Wt $2e^- e^+$ 1.6	Davier 89 mass. p
				$e^- \text{Au}$	
				Li X 2 - 4.5	Aivazyan 86 angp. p

$e^- \text{Au} \rightarrow \text{Li X}$

$e^+ e^- \rightarrow J/\psi(1S)$

$e^- \text{Au}$			$e^+ \gamma$			$e^+ e^-$		
Li X			$D^*(2010)^- e^+ X$			ϕ		
	Aivazyan 86B	a-dep. angp. p	18.3	Bartel 87B	cs			Dolinsky 88
Be X			$e^- 2e^+$					Druzhinin 88
2 - 4.5	Aivazyan 86	angp. p	5	Blinov 87	cs, mass. p			Aulchenko 87C
	Aivazyan 86B	a-dep. angp. p						Barkov 87B
Bor X			$\mu^- \mu^+ e^+$					Aulchenko 86B
2 - 4.5	Aivazyan 86	angp. p	17.5	Berger 85B	ang. angp. cs. p. pt			Aulchenko 86C
	Aivazyan 86B	a-dep. angp. p						Golubev 86
$e^- X$			$2\rho^0 e^+$			$\rho(1450)^0$		Vasserman 86
3.75 - 19.5	Dasu 88	a-dep. angp. p	17.4	Berger 88B	cs	?		Barkov 85B
	Dasu 87	p						
	Dasu 87B	a-dep. p						
	Gomez 85	angp. p						
He X			$K^+ K^- e^+ + \pi^+ \pi^- e^+$					Dolinsky 89B
2 - 4.5	Aivazyan 86	angp. p	14.5	Boyer 86	cs			Barkov 85
	Aivazyan 86B	a-dep. angp. p						
$e^- X$			$D^0 \pi^+ e^+ X$			$f_2(1270)$		
?	Day 87	a-dep. p	18.3	Bartel 87B	mass	?		Dolinsky 89B
$e^- 235\text{U}$			$\bar{D}^0 \pi^- e^+ X$					Vorobiev 88C
fragt X			18.3	Bartel 87B	mass			Aulchenko 87C
1.33 - 4.32	Arakelyan 89	cs						
	Arakelyan 89C	cs						
$e^- 238\text{U}$			$\eta \pi^+ \pi^- e^+$			$a_2(1320)^0$		
fragt X			14.5	Gidal 88B	mass	?		Dolinsky 89B
1.33 - 4.32	Arakelyan 89	cs						Vorobiev 88C
	Arakelyan 89C	cs						Aulchenko 87C
$e^- \text{nucleus}$			$K^+ K_S^- \pi^- e^+ + K_S^- K^- \pi^+ e^+$			$f_0(1400)$		
$e^- X$			14.5	Gidal 88	mass	?		Dolinsky 89B
0.96 - 1.5	Sealock 89	angp. cs. mass						Vorobiev 88C
axion X			$K^+ \pi^0 2\pi^- e^+ X$					Aulchenko 87C
275	Bross 89		18.3	Bartel 87B	mass			
?	Davier 87							
fragt X			$K^- 2\pi^+ \pi^0 e^+ X$					
1.501 - 16	Fredriksson 87	cs	18.3	Bartel 87B	mass			
$e^- e^+ X$								
275	Bross 89	cs, mass						
$\Delta(1232 P_{33}) e^- X$			$e^+ e^-$			$C(1480)$		
0.96 - 1.5	Sealock 89		X			1.28 - 1.4		Dolinsky 89B
nucleus $e^- \text{higgs}$			(10.52)	Kreinick 89		1603 - 1918		Aulchenko 87B
1.6	Davier 89	cs		Miller 89		?		Aulchenko 86C
nucleus $2e^- e^+$			neutral					
1.6	Davier 89	mass. p	(55 - 60.8)	Odaka 89	cs			Dolinsky 89B
			mult[charged]					
$e^+ \gamma$			(29)	Sugano 86	mult			Kolanoski 86
e^{*+}			ρ^0					
(14 - 28)	Bonneaud 86	cs	?	Dolinsky 89				Bisello 90
$e^+ X$				Dolinsky 89B				Bisello 89
?	Kolanoski 86	const. p		Dolinsky 88B				Coffman 89
$\eta' e^+$				Kurdadze 88				Lockman 89
14.5	Aihara 88D	cs		Vasserman 88				Mallik 89B
	Gidal 88B	cs		Aulchenko 87C				Szklarz 89
	Landsberg 85	p		Aulchenko 87B				Adler 88D
$f_1(1285) e^+$				Aulchenko 86B				Ajaltouni 88
14.5	Aihara 88D	cs		Aulchenko 86B				Ajaltouni 88B
	Aihara 88E	cs		Aulchenko 86C				Augustin 88
	Gidal 88	cs		Barkov 85				Augustin 88B
$f_1(1420) e^+$								Coffman 88
14.5	Aihara 86J	cs						Falvard 88
$\eta(1440) e^+$								Hitlin 88
14.5	Aihara 86J	cs						Jousset 88
meson⁰ e^+								Mir 88
14.5	Aihara 88D	cs						Stanco 88
	Gidal 88	cs						Toki 88
$D^*(2010)^+ e^+ X$								Toki 88B
18.3	Bartel 87B	cs						Augustin 87
								Baltrusaitis 87
								Becker 87C
								Bisello 87
								Henrad 87
								Pallin 87
								Schindler 87
								Baltrusaitis 86B
								Baltrusaitis 86C
								Bisello 86
								Bisello 86B
								Konigsmann 86
								Stockhausen 86
								Augustin 85
								Augustin 85B
								Augustin 85C
								Augustin 85D
								Augustin 85E
								Baltrusaitis 85E
								Baltrusaitis 85F
								Gaiser 85
								Jeanmarie 85
								Lee 85B
								Odian 85
								Richman 85
								Rosner 85E
								Toki 85B

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow J/\psi(1S)$ $e^+ e^- \rightarrow Z^0$

$e^+ e^-$		$e^+ e^-$		$e^+ e^-$		
$J/\psi(1S)$	Tsukerman 85B Achasov 84F	$\Upsilon(1S)$	Albrecht 85L Avery 85 Baru 85 Behrends 85 Bloom 85C Koenigsmann 85 Lowe 85 Mestayer 85 Rosner 85E	$\Upsilon(4S)$	Albrecht 88T Thornlike 88 Alam 87B Albrecht 87B Albrecht 87D Albrecht 87G Albrecht 87O Albrecht 87P Bean 87 Bean 87B Behrends 87 Gittelman 87 Gray 87 Schindler 87 Voloshin 87 Alam 86 Bartoletto 86 Lowe 86B Mageras 86 Albrecht 85K Albrecht 85N Chen 85 Haas 85 Lovlock 85	
$\psi(2S)$	Mir 89 Toki 89 Hitlin 88 Schindler 87 Koenigsmann 86 Lee 85B	$\Upsilon(2S)$	Albrecht 89B Albrecht 89J Kaarsberg 89 Maschmann 89 Albrecht 88D Albrecht 88I Albrecht 88K Albrecht 88Q Jakubowski 88 Albrecht 87Q Schindler 87 Skwarnicki 87 Voloshin 87 Albrecht 86C Bowcock 86 Lefler 86 Lowe 86B Albrecht 85C Albrecht 85H Albrecht 85I Albrecht 85L Augustin 85E Bloom 85C Koenigsmann 85 Skwarnicki 85B Walk 85	$\Upsilon(10860)$	Voloshin 87 Besson 85 Lovlock 85	
$\psi(3770)$	Adler 89 Adler 89C Adler 89D Adler 89E Browder 89 Dejongh 89 Wasserbaech 89 Adler 88 Adler 88B Adler 88F Grab 88 Izen 88 Schindler 88 Adler 87 Adler 87B Becker 87B Brient 87 Grab 87 Schindler 87 Stockdale 87 Stockhausen 87 Stockhausen 87B Wasserbaech 87 Baltusaitis 86D Baltusaitis 86E Schindler 86 Augustin 85E Baltusaitis 85B Baltusaitis 85D Baltusaitis 85J Coward 85 Gaiser 85 Schindler 85	$\Upsilon(3S)$	Chen 89 Kaarsberg 89 Bowcock 87 Gray 87 Kaarsberg 87 Schindler 87 Voloshin 87	$\Upsilon(11020)$	Voloshin 87 Besson 85	
$\psi(4040)$		$\Upsilon(4S)$	Miller 89 Schubert 89 Bebek 87B Albrecht 90D Albrecht 90E Alexander 90 Bortoletto 90 Weir 90 Alam 89 Albrecht 89B Albrecht 89C Albrecht 89E Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Albrecht 89X Artuso 89 Avery 89B Bebek 89 Bortoletto 89 Bortoletto 89B Danilov 89 Drell 89 Franzini 89 Fulton 89 Hallin 89 Ha: 89 Itep 89 Kreimick 89 Maschmann 89 Albrecht 88D Albrecht 88E Albrecht 88G Albrecht 88C Albrecht 88I Albrecht 88M	mass	Z^0	Aarnio 90 Aarnio 90B Abreu 90 Abreu 90B Abreu 90C Abreu 90D Abreu 90E Abreu 90F Adeva 90 Adeva 90B Adeva 90C Adeva 90D Akrawy 90 Akrawy 90B Akrawy 90C Akrawy 90D Akrawy 90E Akrawy 90F Akrawy 90G Akrawy 90H Akrawy 90I Akrawy 90J Akrawy 90K Akrawy 90L Akrawy 90M Akrawy 90N Barklow 90 Burchat 90 Decamp 90 Decamp 90B Decamp 90C Decamp 90D Decamp 90E Decamp 90F Decamp 90G Decamp 90H Decamp 90I Komarniya 90 Kuhlen 90 Nash 90 Soderstrom 90 Aarnio 89 Abrams 89 Abrams 89B Abrams 89C Abrams 89F Adeva 89 Adeva 89B Akrawy 89 Akrawy 89B
$\psi(4160)$	Osterheld 86	$\Upsilon(4S)$	(10.58)		col	
$\psi(4415)$	Schindler 87 Osterheld 86	$\Upsilon(4S)$	(10.58)	cs, p	cs	
$\Upsilon(1S)$	Osterheld 86					
$\Upsilon(1S)$	Albrecht 89B Albrecht 89J Baru 89 Chen 89 Fulton 89 Fulton 89B Kaarsberg 89 Maschmann 89 Schutte 89 Albrecht 88D Albrecht 88I Albrecht 88K Albrecht 88Q Fairfield 88 Jakubowski 88 Schmitt 88 Albrecht 87H Baru 87 Schindler 87 Tuts 87 Voloshin 87 Albrecht 86D Baru 86B Bean 86 Csorna 86 Lowe 86 Lowe 86B Mageras 86 Albrecht 85I					

$e^+ e^- \rightarrow Z^0$

$e^+ e^- \rightarrow \eta X$

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
Z^0	mult[charged] (neutrals)	$\mu^\pm X$
Akrawy 89C	Derrick 86 col. mult. p	(44) Adeva 87 pt
Akrawy 89D	Derrick 86C mult. p	(50 - 55) Abe 88B col. cs
Akrawy 89E	Feldman 85 cor. p	(50 - 56) Ko 88 col
Burchat 89 cs	Gan 85 p	(55 - 56) Sumiyoshi 88 col
Decamp 89	Buschbeck 89 mult. p	(56 - 57) Abe 88F ang
Decamp 89B cs	Gittelman 87	(56.5 - 60.8) Adachi 89E col
Decamp 89C	Braunschweig 89C	
Decamp 89D	col. const. mass. mult. p	$\mu^+ X$
Decamp 89E	Adeva 85	(14 - 46.8) Adeva 86B cs
Decamp 89G	Zheng 90 cs. mult. p	(29) Band 89 a.y.m. p. pt
Decamp 89G	Abrams 89E cs. mult	Band 88 p. pt
Decamp 89H		Ong 87 p. pt
Feldman 89		Bartel 87C p. pt
Feldman 89B	charged ⁺ charged ⁻	
Hearty 89 cs	978.5 - 1918 Bondar 84 cs	$\mu^- X$
Komamiya 89C	$\uparrow X$	(14 - 46.8) Adeva 86B cs
Kral 89	(5 - 31.6) Marshall 89 p	(29) Band 89 asym. p. pt
Nash 89	(9.46) Irion 85 p	Band 88 p. pt
Weinstein 89 cs	Komamiya 85	Ong 87 p. pt
	Irion 85	Bartel 87C p. pt
positronium	(10.02) Rosner 85E	(33 - 37.5) Goldhaber 85C p. pt
?	Albrecht 86 p	(34.6 - 44) Bartel 85M cs
toponium	Naroska 87 p	
(39.79 - 46.78) Bartel 85M	Bartel 85 cs, mult. p	$\pi^0 X$
(40 - 46.7) Adeva 85	Hearty 87 cs	(5 - 31.6) Marshall 89 p
	(14 - 22.5) Barthia 86 cs	(9.4 - 10.49) Behrends 85 p
T(unspec)	Hollebeck 86	(10) Albrecht 89G
?	Wu 86	
meson	Hollebeck 85	(10 - 15) Mattig 89 cs, mult. p
(7.2 - 10) Blinov 85B	Aihara 84F cs. p	(12 - 34) Naroska 87 p
(39.79 - 46.78) Bartel 85M	Fernandez 84C	(14 - 22.5) Bartel 85 p
	Marshall 89 mult	Hofmann 87B mult
$D_S^+ + X$	Whitaker 86 cs	Aihara 84F cs, p
(9.4 - 10.6) Albrecht 87N	Naroska 87 mult	Marshall 89 mult
	(35) Behrend 89B mult. p	Naroska 87 mult
axion	(39.5) Adeva 87 pt	Braunschweig 86 angp. p
0.0012 - 0.0013	(42.6) Behrend 86D p	Behrend 89B mult. p
	(52 - 60.8) Ogawa 89 p	Pitzl 89 mult. p
monopole	$e^\pm X$	(35) Behrend 89B mult. p
(57) Shirai 88 cs	(10.34 - 11.18) Behrends 85B p	Braunschweig 89B mult. p
mult[jet]	(10.57 - 10.59) Wachs 89 p	
(12 - 43.5) Braunschweig 89H	(10.57) Cassel 85 p	Barlow 87 -
(54 - 61.4) Abe 90 ang	Ong 88B p. pt	
unspec	Wu 86 -	$\pi^\pm X$
0.0019 - 0.0027	Kolick 85B mult	(5 - 31.6) Marshall 89 p
?	Marshall 89	(29) Avery 89 cor
	Goldhaber 85C -	Aihara 88C cs, mult. p
charged X	Bartel 86	Hofmann 87B mult
(1.5 - 55) Ma. 'iall 89 mult	(38.3 - 46.3) Behrend 87B col	Madaras 86 -
(5 - 31.6) Marsnall 89 p	(39.5) Adeva 87 pt	Hofmann 85 -
(12 - 35) Naroska 87 mult	(46.8) Behrend 87 -	Marshall 89 mult
(14 - 43) Barreiro 85B p	(50 - 55) Abe 88B col. cs	Bartel 85 p
(14 - 46.8) Braunschweig 89D mult	(50 - 56) Ko 88 col	Hofmann 87B mult. p
Burchat 86 -	(55 - 56) Sumiyoshi 88 col	Miyamoto 87 mult. p
Petersen 86C col. p		
Sugano 86 mult	$e^+ X$	29 Aihara 37B cs
Derrick 85D p	(10.3 - 10.5) Bowcock 88 p	Behrends 85 p
Yamamoto 85 -	(29) Brom 87 p	Mattig 89 cs, p
Yamamoto 85E	Ong 87 p. pt	Rouse 87 p. p
	Goldhaber 85C mass. pt	
(34) Hofmann 87B cs, p. pt	(29 - 34) Bartel 85C mass. pt	$\pi^- X$
Althoff 85B p	(32 - 46.78) Abachi 89 cs	29 Aihara 87B cs
(52) Miyamoto 87 mult. p		Behrends 85 p
Sakai 87 mult. p	$e^- X$	(10 - 45) Mattig 89 cs, p
(52 - 57) Li 89B p. pt	(10.3 - 10.5) Bowcock 88 p	Rouse 87 p. p
(91.1) Abrams 89E p. pt	(29) Brom 87 p	
mult[charged] X	Ong 87 p	$\pi^+ X + \pi^- X$
(14 - 43.7) Braunschweig 90 mult	Fernandez 87C p	(29) Aihara 88F p. pt
	Ong 87 p. pt	Cowan 88 cs, p
2neutral	(32 - 46.78) Bartel 85C mass. pt	Derrick 87 cs
244.6 - 1918 Aulchenko 86 cs	?	(34 - 44) Braunschweig 89B mult. p
mult[charged] (neutrals)	$\mu^\pm X$	
(9.46 - 9.98) Albrecht 86D col	(10.34 - 11.18) Behrends 85B p	
(10) Albrecht 89B angp. col	(10.57) Cassel 85 p	ηX
(10 - 45) Mattig 89 cs, mult	(14 - 46.1) Adeva 88 angp. asym. cs	(10) Albrecht 89G cs, mult. p
(12 - 35) Naroska 87 mult	(29) Ong 88 p. pt	(10 - 45) Mattig 89 cs, p
(12 - 46.8) Braunschweig 89J mult. p	Ong 88B p. pt	(12 - 34) Naroska 87 p
	Wu 86 p. pt	(29) Abachi 88B p
(22 - 34) Marshall 89 mult	Aihara 85E p. pt	Hofmann 87B mult
(22 - 46.78) Adeva 85C angp. asym	Naroska 85 mult	Marshall 89 mult
(29) Derrick 87C col. mult. p	(29.9 - 38.7) Bartel 85 p	Bartel 85 p
	(34) Naroska 87 mult	Naroska 87 mult
	(35) Bartel 86 pt	Behrend 89B mult. p
	(38.3 - 46.3) Behrend 87B col	Pitzl 89 mult. p

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow \rho X$ $e^+ e^- \rightarrow D_S^+ X$

$e^+ e^-$		$e^+ e^-$		$e^+ e^-$	
ρX		$e^+ X$		$D^0 X$	
(29)	Hofmann 87B	(55 - 56)	Sumiyoshi 88	(10.3 - 10.5)	Bowcock 88
$\rho^0 X$		$e^- X$		(10.5)	Alexander 89
(9.4 - 10.49)	Behrends 85	(50 - 57)	Kamae 88	(10.52 - 10.58)	Bortoletto 88
(10 - 45)	Mattig 89	(55 - 56)	Sumiyoshi 88	(10.55)	Harder 89
(12 - 34)	Naroska 87	heavy-lepton X		(10.58)	Csorna 87B
(29)	Albachi 89D	(29)	Riles 88	(29)	Heltsley 86
	Edberg 88	(50 - 56)	Rosenfeld 88	(29)	Averill 89
	Derrick 85F	(50 - 57)	Kichimi 88		Baringer 88
(29 - 35)	Marshall 89	(52)	Miyamoto 87		Grab 87
(34)	Naroska 87	heavy-lepton⁺ X			Hofmann 87B
$\eta' X$		(50 - 57)	Kamae 88	(44)	Riles 87
(29)	Wormser 88B	heavy-lepton⁻ X			Derrick 85B
	Hofmann 87B	(50 - 57)	Kamae 88		Yamamoto 85C
$f_0(975) X$		heavy-lepton⁰ X		$\bar{D}^0 X$	
(10 - 45)	Mattig 89	(50 - 57)	Kamae 88	(9.4 - 10.6)	Albrecht 88J
(29)	Abachi 86C	(50 - 57)	Kamae 88	(10)	Albrecht 88F
ϕX		(56)	Maki 88	(10.3 - 10.5)	Bowcock 88
978.5 - 1079	Golubev 85	ℓX		(10.5)	Alexander 89
(9.4 - 10.49)	Behrends 85	(35 - 43)	Ouldsaada 88B	(10.52 - 10.58)	Bortoletto 88
(10 - 45)	Mattig 89	$\mu^{\pm} X$		(10.55)	Harder 89
(10.45)	Albrecht 88K	(50 - 57)	Kichimi 88	(10.58)	Csorna 87B
(10.57 - 10.58)	Bortoletto 86	$\mu^+ X$		(29)	Averill 89
(29)	Edberg 88	(50 - 57)	Kamae 88		Baringer 88
	Hofmann 87B	$\mu^- X$		(44)	Riles 87
	Derrick 85C	(50 - 57)	Kamae 88	$D^0 X + \bar{D}^0 X$	
(29 - 35)	Marshall 89	mult$[\eta] X$		(29 - 35)	Marshall 89
$f_2(1270) X$		(29)	Abachi 88B	$D^{\pm} X$	
(10 - 45)	Mattig 89	(9.5 - 10.8)	Avery 85	(29 - 35)	Marshall 89
(29)	Abachi 86C	$\tau^+ X$		$D^+ X$	
$\eta(1440) X$		(50 - 57)	Kichimi 88	(4.14)	Adler 88C
(29.9 - 46.78)	Bartel 85J	$\tau^{*+} X$		(9.4 - 10.6)	Albrecht 88J
(44)	Barlow 87	(50 - 57)	Kamae 88	(10.3 - 10.5)	Bowcock 88
$\tau^+ X$		$\tau^{*-} X$		(10.52 - 10.58)	Bortoletto 88
(10)	Albrecht 85J	(50 - 57)	Kamae 88	(10.55)	Harder 89
(10.34 - 11.18)	Behrends 85B	heavy-lepton⁻ X + heavy-lepton⁺ X		(10.58)	Csorna 87B
(29)	Tschirhart 88	(56)	Maki 88	(29)	Averill 89
	Derrick 87B	$B^+ X$		(29 - 34)	Derrick 85B
$\tau^- X$?	Schindler 87	$D^- X$	
(10)	Albrecht 85J	$B^- X$		(4.14)	Adler 88C
(10.34 - 11.18)	Behrends 85B	(10)	Albrecht 89T	(9.4 - 10.6)	Albrecht 88J
(14 - 46.8)	Behrend 88	?	Schindler 87	(10.3 - 10.5)	Bowcock 88
(29)	Tschirhart 88	$B^0 X$		(10.52 - 10.58)	Bortoletto 88
	Aihara 87G	(10.2 - 10.5)	Albrecht 89N	(10.55)	Harder 89
	Gan 88B	(29)	Averill 89	(10.58)	Csorna 87B
$D^*(2010) X$?	Wagner 89B	(29)	Averill 89
(34)	Kiesling 85	$\bar{B}^0 X$			Derrick 85B
$J/\psi(15) X$		(10)	Schindler 87	$D_S^- X$	
(10.49)	Maschmann 89	(10.2 - 10.5)	Albrecht 89N	(4.14)	Blaylock 87
(29)	Wormser 88	(29)	Averill 89	(9.4 - 10.6)	Albrecht 88J
(30 - 35)	Ferraro 88	?	Wagner 89B		Albrecht 87R
?	Chan 88	$B^+ X$		(10)	Albrecht 85D
	Baltrusaitis 85G	?	Schindler 87	(10.5)	Albrecht 89P
$\Upsilon(1S) X$		$B^+ X$		(10.5)	Chen 89B
(10)	Albrecht 89G	$B^0 X$			Haas 86
	Albrecht 89I	?	Schindler 87	(10.52 - 10.58)	Bortoletto 88
$\Upsilon(2S) X$		$B^+ X$		(10.58)	Csorna 87B
(9.98)	Albrecht 89H	$B^+ X$		(29)	Averill 89
(10)	Albrecht 89G	$B^0 X$			Jung 86
$B X$?	Schindler 87	(35 - 44)	Braunschweig 87B
(10.57)	Cassel 85	$\bar{B}^0 X$		(44)	Barlow 87
$B(\text{unspec}) X$		$B_S X$?	Schindler 87
(10.38 - 10.58)	Csorna 85	?	Schindler 87	$D_S^+ X$	
$B^*(\text{unspec}) X$		$\bar{B}_S X$		10	Albrecht 85M
(10.62 - 11.25)	Han 85	?	Schindler 87	(4.14)	Blaylock 87
$\bar{B} X$		$D^0 X$		(9.4 - 10.6)	Albrecht 88J
(10.57)	Cassel 85	(9.4 - 10.6)	Albrecht 88J		Albrecht 87R
$D(\text{unspec}) X$		(10)	Albrecht 87E		Albrecht 85D
(9.4 - 10.6)	Albrecht 89	(29)	Averill 89	(10)	Albrecht 89P
(10)	Albrecht 89V	?	Schindler 87	(10.5)	Chen 89B
		$D^0 X$			Haas 86
$e^{\pm} X$		(10)	Albrecht 88F	(10.5)	Chen 89B
(50 - 57)	Kichimi 88		Albrecht 88S	(10.52 - 10.58)	Bortoletto 88
$e^+ X$			Grab 87	(10.58)	Csorna 87B
(50 - 57)	Kamae 88		Albrecht 86F	(29)	Averill 89

$e^+ e^- \rightarrow D_S^\pm X$

$e^+ e^- \rightarrow D^*(2010)^\pm X$

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$D_S^\pm X$	$D_S^{*\pm} X$	$K^*(892)^\pm X$
(35 - 44) Jung 86	(9.4 - 10.6) Albrecht 85B	(9.4 - 10.49) Behrends 85
(44) Derrick 85C angp. cs	(29) Bartel 85G	(10) Behrend 89F
Barlow 87	Schindler 87	(10 - 45) Mattig 89
Brunschweig 87B cs		(29) Abachi 87B mult. p
Schindler 87	$D_S^\pm X$	$K^*(892)^0 X$
Derrick 85C	(9.4 - 10.6) Albrecht 85B	(9.4 - 10.49) Behrends 85
	(29) Bartel 85G	(10 - 45) Mattig 89
	Schindler 87	(29) Abachi 89D
$D^*(2010)^0 X$	$D_S^\pm X + D_S^{*\mp} X$	(10 - 45) Edberg 88
(10.52 - 10.58) Bortoletto 88	(34) Naroska 87	Hofmann 87B
(29) Abachi 88		Derrick 85F
Low 87	$D_S^*(2547)^+ X$	$\bar{K}^*(892)^0 X$
Bartei 85G	Schindler 87	(9.4 - 10.49) Behrends 85
Schindler 87	$D_S^*(2547)^- X$	(29) Abachi 89D
	Schindler 87	Derrick 85F
$\bar{D}^*(2010)^0 X$	$D^*(2150)^0 X$	$K^*(892)^+ X + K^*(892)^- X$
(10.52 - 10.58) Bortoletto 88	$\bar{D}^*(2150)^0 X$	(12 - 34) Naroska 87
(29) Abachi 88	?	(34) Naroska 87
Low 87	$D^*(2300)^0 X$	$K^*(892)^0 X + \bar{K}^*(892)^0 X$
Bartel 85G	?	(29) Aihara 85
Schindler 87	?	(29 - 35) Marshall 89
	$D_1(2420)^+ X$	$K_1^*(1430)^+ X$
$D^*(2010)^0 X + D^*(2010)^0 X$	$D_1(2420)^- X$	(29) Abachi 87B
(34) Naroska 87	?	$K_1^*(1430)^- X$
$D^*(2010)^0 X + \bar{D}^*(2010)^0 X$	$D_1(2420)^0 X$	(29) Abachi 87B
(29 - 35) Marshall 89	?	$\bar{K}_1^*(1430)^0 X$
$D^*(2010)^+ X$	$\bar{D}_1(2420)^0 X$	(10 - 45) Mattig 89
(9.4 - 10.6) Albrecht 88J	$D_1(2420)^0 X + \bar{D}_1(2420)^0 X$	(29) Abachi 86C
(9.5 - 10.5) Albrecht 85	(10) Albrecht 86B	higgsino X
(10.1 - 10.4) Albrecht 89R	$D_2^*(2460)^+ X$	(50 - 57) Kamae 88
(10.3 - 10.5) Albrecht 87F	?	$\bar{\mu}^+ X$
(10.38 - 10.58) Bowcock 88	$D_2^*(2460)^- X$	(50 - 57) Kamae 88
(10.38 - 10.58) Csorna 85	?	$\bar{\mu}^- X$
(10.52 - 10.58) Bortoletto 88	$D_2^*(2460)^0 X$	(50 - 57) Kamae 88
(28 - 46.8) Braunschweig 89G	(10) Albrecht 89V	$K^\pm X$
(29) Abachi 89C	angp. mass, p	(5 - 31.6) Marshall 89
Averill 89	$K^+ X$	(19 - 34) Yamamoto 85E
Abachi 88	29	(29) Aihara 87B
Baringer 88	(9.4 - 10.49) Behrends 85	(29) Aihara 88C
angp. cs, p, pt	(10 - 45) Mattig 89	Hofmann 87B
Abachi 87C	(29) Rouse 87	Madaras 86
Wagner 87	$K^- X$	Hofmann 85
Abachi 86B	29	Yamamoto 85E
Aihara 86E	(9.4 - 10.49) Behrends 85	
Gladney 86B	(10 - 45) Mattig 89	
Yamamoto 85	(29) Rouse 87	
Yamamoto 85B	$K^+ X + K^- X$	
Yamamoto 85C	(29) Aihara 88F	
Barlow 87	(5 - 31.6) Marshall 89	
Schindler 87	(9.46) Mestayer 85	
Augustin 85E	(29) Derrick 87	
	(29 - 35) Marshall 89	
$D^*(2010)^- X$	$K^*(892)^+ X$	
(9.4 - 10.6) Albrecht 88J	(9.4 - 10.49) Behrends 85	
Albrecht 85	(10 - 45) Mattig 89	
Albrecht 87F	(29) Hofmann 87B	
Bowcock 88	$K^0 X$	
Csorna 85	(9.4 - 10.49) Behrends 85	
Bortoletto 88	(10 - 45) Mattig 89	
Braunschweig 89G	(29) Hofmann 87B	
(29) Averill 89	$\bar{K}^0 X$	
Abachi 88	(9.4 - 10.49) Behrends 85	
Baringer 88	(10 - 45) Mattig 89	
angp. cs, p, pt	$K^0 X + \bar{K}^0 X$	
Abachi 87C	(5 - 31.6) Marshall 89	
Wagner 87	(9.46) Mestayer 85	
Aihara 86E	(29) Derrick 87	
Yamamoto 85	(29 - 35) Marshall 89	
Yamamoto 85B	$K^*(892)^\pm X$	
Yamamoto 85C	(9.4 - 10.49) Behrends 85	
Barlow 87	(10 - 45) Mattig 89	
Schindler 87	$B^* X$	
	$D_S^\pm X$	
(44) Marshall 85	(4.14) Adler 89E	
?	(29) Toki 89B	
$D^*(2010)^+ X + D^*(2010)^- X$	(29) Wormser 87	
(29) Marshall 85	$D^*(2010)^\pm X$	
Yamamoto 85E	(29) Naroska 85	
cs, p, pt	(29) Marshall 89	
Naroska 87	(35) Ouldsaada 88B	
Yamamoto 85E	angp	
(42.2) Althoff 86C		
?		
Rosner 85E		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Data Booklet.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow p X$ $e^+ e^- \rightarrow \text{charged-hadron } X$

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$p X$	$\Xi_c(2460)^0 X$	$\Xi^- X + \Xi^+ X$
29 (9.4 - 10.49) Aihara 87B cs	(10.5) Avery 88	(12 - 34) Naroska 87 p
(10 - 45) Behrends 85 p	(10.5 - 10.7) Alam 89B	(29 - 35) Marshall 89 mult
(29) Mattig 89 cs, p	ΛX	(34) Naroska 87 mult
(29) Rouse 87 p, p	(9.4 - 10.49) Behrends 85 p	$\Xi(1630 P_{13})^0 X$
(29) Madaras 86 p	(10) Behrend 89F p	(10) Albrecht 86G cs, p
$\bar{p} X$	(10 - 45) Mattig 89 cs, p	(10 - 45) Albrecht 86G cs, p
29 (9.4 - 10.49) Aihara 87B cs	(19 - 34) Yamamoto 85E cs, p	(29) Klein 88 cs
(29) Behrends 85 p	(29) Hofmann 87B cs, p, pt	(29) Klein 87 cs
(29) Rouse 87 p, p	(29) Abachi 86D angp, p	$\Xi(1630 P_{13})^0 X + \Xi(1630 P_{13})^0 X$
(29 - 35) Madaras 86 p	(29) Baringer 86 mult, p	(10) Albrecht 881 cs, mass
(29 - 35) Marshall 89 mult	(29) Madaras 86 p	ΞX
$p X + \bar{p} X$	(29) Delavaissier 85 cs, p, pt	(10 - 45) Mattig 89 cs, p
(5 - 31.6) Marshall 89 p	(34.8 - 42.1) Braunschweig 891 cs, p, pt	(10) Albrecht 86G cs
(9.46) Mestayer 85 p, pt	(44) Barlow 87 col, cs, p, pt	(10 - 45) Mattig 89 cs, p
(29) Aihara 88C cs, mult, p	$\bar{\Lambda} X$	(29) Hofmann 87B mult
(29) Aihara 88F p, pt	(9.4 - 10.49) Behrends 85 p	$\bar{\Omega}^+ X$
(29) Cowan 88 cs, p	(29) Delavaissier 85 cs, p, pt	(29) Klein 88 cs, pt
(29) Derrick 87 cs	(29 - 35) Marshall 89 mult	$\Omega^- X + \bar{\Omega}^+ X$
(29 - 35) Marshall 89 mult	(44) Barlow 87 mult	(10) Albrecht 881 cs, mass
(34 - 44) Braunschweig 89B mult, p	$\Lambda X + \bar{\Lambda} X$	(29 - 35) Marshall 89 mult
$\Delta(1232 P_{33})^{++} X$	(9.46) Mestayer 85 p	(29) Naroska 87 mult
(10) Albrecht 891 cs	(10) Albrecht 881 cs, p	(14 - 33) Althoff 85B p
(10 - 45) Mattig 89 cs, p	(12 - 34) Naroska 87 p, pol, pt	(29) Derrick 87 col, cs, mult, p, pol, pt
(29) Hofmann 87B mult	(14 - 33) Althoff 85B p	(29) Baden 86 cs
$\bar{\Delta}(1232 P_{33})^{--} X$	(29) Mattig 89 angp, cs, p, pt	(29) Aihara 85B mult, p
(10) Albrecht 891 cs	(34) Marshall 89 mult, p	(29) Marshall 89 mult
$\Lambda_c^+ X$	(34) Naroska 87 mult	$\Sigma^+ X + \Sigma^- X$
(4.5 - 6.8) Klein 89C cs	(29) Mestayer 85 p	(29 - 35) Marshall 89 mult
(9.46) Mestayer 85 cs, p	(10) Albrecht 881 cs, p	(29) Hofmann 87B mult
(9.46 - 10.6) Klein 89C cs, p	(12 - 34) Naroska 87 p	$\Sigma^0 X$
(10.5 - 10.85) Albrecht 88D cs, p	(14 - 33) Althoff 85B p	(10 - 45) Mattig 89 cs, p
(10.52 - 10.58) Bowcock 85 cs, p	(29) Derrick 87 col, cs, mult, p, pol, pt	$\Sigma^0 X + \bar{\Sigma}^0 X$
(29) Bortoletto 88 cs	(29) Baden 86 cs	(10) Albrecht 881 cs, mass
(29) Klein 89 cs	(29) Aihara 85B angp, cs, p, pt	$\Sigma(1385 P_{13})^+ X$
(29) Klein 89C cs	(29) Marshall 89 mult, p	38.4 - 42.1 Braunschweig 891 cs
(29) Klein 88 cs, p	(34) Naroska 87 mult	(10) Albrecht 86G cs
$\bar{\Lambda}_c^- X$	(34) Marshall 89 mult	(10 - 45) Mattig 89 cs, p
(9.46 - 10.6) Albrecht 88D cs, p	(29) Hofmann 87B mult	(10 - 45) Mattig 89 cs, p
(10.5 - 10.85) Bowcock 85 cs, p	(29) Braunschweig 891 cs	$\Sigma(1385 P_{13})^+ X + \bar{\Sigma}(1385 P_{13})^- X$
(10.52 - 10.58) Bortoletto 88 cs, p	(29) Albrecht 86G cs	(10) Albrecht 881 cs, mass
(29) Klein 89 cs	(29) Mattig 89 cs, p	$\Sigma(1385 P_{13})^- X$
(29) Klein 88 cs, p	(29) Abachi 87D cs, p	38.4 - 42.1 Braunschweig 891 cs
$\Lambda_c^+ X + \bar{\Lambda}_c^- X$	(29) Albrecht 881 cs, mass	(10) Albrecht 86G cs
(19 - 34) Yamamoto 85E cs, p, pt	$\Sigma(1385 P_{13})^- X + \bar{\Sigma}(1385 P_{13})^+ X$	(10 - 45) Mattig 89 cs, p
$\Xi_c(2455)^0 X$	(10) Albrecht 881 cs, mass	(10) Albrecht 881 cs, mass
(10) Klein 89C p	$\Sigma(1385 P_{13})^- X$	38.4 - 42.1 Braunschweig 891 cs
(10.5) Albrecht 88H p	(10) Braunschweig 891 cs	(10) Albrecht 86G cs
(29) Bowcock 89 p	(29) Albrecht 881 cs, mass	(10) Abachi 87D cs, p
(29) Klein 89C cs	$\Sigma(1385 P_{13})^- X + \bar{\Sigma}(1385 P_{13})^+ X$	(10) Albrecht 881 cs, mass
(29) Klein 88 cs	(10) Albrecht 881 cs, mass	$\Lambda(1520 D_{03}) X$
$\bar{\Xi}_c(2455)^0 X$	$\Sigma(1385 P_{13})^- X + \bar{\Sigma}(1385 P_{13})^+ X$	(9.4 - 10.6) Albrecht 88Q cs
(10) Albrecht 88H p	(10) Albrecht 881 cs, mass	$\Xi^- X$
(29) Klein 88 cs	$\Lambda(1520 D_{03}) X$	(9.4 - 10.49) Behrends 85 p
$\Sigma_c(2455)^{++} X$	(10) Albrecht 88Q cs	(10) Albrecht 86G p
(10) Klein 89C p	$\Xi^- X$	(29) Klein 88 cs, p
(10.5) Albrecht 88H p	(9.4 - 10.49) Behrends 85 p	(29) Abachi 87D cs, p
(29) Bowcock 89 p	(29) Klein 88 cs, p	(29) Klein 87 cs, p
(29) Klein 89C cs	(34.8 - 42.1) Braunschweig 891 cs, p, pt	$\Xi^+ X$
(29) Klein 88 cs	$\Xi^+ X$	(9.4 - 10.49) Behrends 85 p
$\bar{\Xi}_c(2455)^{--} X$	(9.4 - 10.49) Behrends 85 p	(29) Klein 88 cs, p
(10) Albrecht 88H p	(29) Klein 88 cs, p	(29) Klein 87 cs, p
(29) Klein 88 cs	$\Xi^- X + \Xi^+ X$	(10) Mestayer 85 p
$\Xi_c(2460)^+ X$	(9.46) Mestayer 85 p	(10) Albrecht 881 cs, mass, p
(10.5 - 10.7) Alam 89B p	(10) Albrecht 881 cs, mass, p	
$\Xi_c(2460)^0 X$		
(10.5) Klein 89C p		
(10.5 - 10.7) Alam 89B p		
(29) Klein 89C cs		
(29) Klein 88 cs		
$\bar{\Xi}_c(2460)^- X$		
(10.5 - 10.7) Alam 89B p		

$e^+ e^- \rightarrow$ charged-hadron X

$e^+ e^- \rightarrow \mu^- \mu^+$

$e^+ e^-$			$e^+ e^-$			$e^+ e^-$			
charged-hadron X			X \bar{q}			$e^- e^+$			
(52 - 57)	Li 89B	p, pt	(40 - 46.7)	Adeva 85		(14 - 34.6)	Marshall 89	angp	
(91.1)	Abrams 89E	p, pt	(50 - 57)	Kamae 88	col, cs	(14 - 44)	Ouldsaada 88B	angp	
charm X				Kichimi 88	cs	(29)	Fernandez 87	angp, asym	
(29)	Ong 88B	-	$\bar{c} X$				Derrick 86B	angp	
	Ong 87	-	(50 - 57)	Kamae 88	col, cs		Derrick 86D	angp, p	
	Klem 86	-	$\bar{a} X$				Derrick 85E	angp	
	Forden 85B	-	(50 - 57)	Kamae 88	col, cs	(29 - 43.6)	Saxon 86	angp, asym, const, cs	
hadron X			γ neutral			(34.4)	Klein 84B	angp	
(10 - 45)	Mattig 89	cs, p	o	Atoyau 90	cs	(34.57 - 43.71)	Bartel 85K	angp	
(34 - 44)	Braunschweig 89B	p	(9.46)	Gninenko 89	cs	(34.6)	Berger 85E	angp, asym, p	
(< 60)	Salvini 88	angp, cs, p, pt	monopole neutral			(35)	Behrend 89I	-	
hadron⁺ X			(10.6)	Gentile 87	cs	(30.79 - 46.72)	Althoff 85	cs	
(34.6)	Berger 85F	-	neutral jet			(40 - 46.7)	Adeva 85	-	
hadron⁻ X			(27 - 37)	Bartel 85E	angp, cs, pt	(43.6)	Kiesling 85	-	
(34.6)	Berger 85F	-	(40 - 46.78)	Behrend 85	cs	(43.7)	Marshall 85	-	
higgs X			$\nu \bar{\nu}$				angp, asym, const, cs		
(30 - 46.78)	Bartel 86D	-	(29)	Akerlof 88	cs	(50 - 52)	Miyamoto 87	angp	
(40 - 46.7)	Adeva 85	-	(89.2 - 93)	Wendt 87	cs	(50 - 56)	Sakai 87	-	
jet X			o	Jung 89	cs		Rosenfeld 88	angp, cs	
(10 - 45)	Mattig 89	angp, p	0	Ivanov 87	p	(52)	Shirai 88	angp, asym, cs	
(14 - 44)	Genser 89	col, p, pt	0.0002 - 0.0007	Minowa 89	mass		Adachi 88	angp	
(29)	Derrick 86C	-	< 0.0004	Kozhuharov 88	cs		Abe 87	angp, cs	
	Ash 85D	mass, pt	0.0019 - 0.0027	Connell 88	mass	(52 - 56)	Amako 87	angp, cs	
(34.8 - 43.6)	Derrick 85G	mult, p	50 - 57	Kim 89B	angp, mass		Kim 88C	angp, cs	
	Ouldsaada 88B	ang, angp, p	(< 2.4)	Salvini 88	-	(52 - 57)	Tauchl 88	angp	
(35 - 46)	Braunschweig 89C	col, const, mass, mult, p	(10 - 45)	Naroska 87	angp, cs	(52 - 60.8)	Metcall 89	angp	
	Mceneil 88	cs	(14 - 34.6)	Marshall 89	angp	(55 - 56)	Ogawa 89	angp, cs	
(50 - 57)	Sakai 90	angp, col, p	(29)	Fernandez 87B	angp, cs, mass	(55 - 57)	Sunmyoshi 88	angp	
(50 - 60.8)	Salvini 88	angp, cs, p, pt		Derrick 86D	angp, p	(56 - 60.8)	Unno 88	angp	
(< 60)				Gold 86	col		Nozaki 89	angp, asym, const	
monopole X				Derrick 85E	angp	(57)	Mori 89B	angp	
(50 - 52)	Kinoshita 88B	cs	(34 - 44)	Behrend 86	angp	?	Komamiya 85	-	
(50 - 56)	Kinoshita 88C	cs	(39.79 - 46.72)	Althoff 85	angp, cs				
(50 - 57)	Kichimi 88	cs	(44.2)	Kiesling 85	angp	244.6 - 1079	Dolinsky 89	p	
(50 - 60.8)	Kinoshita 89B	cs	(50 - 52)	Miyamoto 87	angp	978.5 - 1079	Landsberg 86	-	
mult[hadron] X				Sakai 87	angp	(< 2.4)	Salvini 88	-	
(19 - 34)	Yamamoto 85E	cs, p, pt	(50 - 56)	Maki 88B	angp, cs	?	Dolinsky 89B	mass	
(29)	Yamamoto 85E	cs, p, pt		Rosenfeld 88	angp	$\mu^- \mu^+$			
(46.8)	Behrend 87	cs, p, pt	(50 - 60.8)	Shirai 88	angp, asym, cs	50 - 57	Kim 89B	angp, mass	
(56)	Kim 88	col	(50 - 61.4)	Kim 89E	angp, asym, cs	126.8 - 1918	Barkov 85	angp, cs, mass, pwa	
	Kim 88D	angp, col, p, pt	(52)	Kim 89F	angp, cs	(0.9 - 38)	Klein 84B	cs	
mult[jet] X				Adachi 88	angp	978.5 - 1918	Bondar 84	cs	
(19 - 34)	Yamamoto 85E	cs, p, pt	(52 - 56)	Abe 87	angp, cs	(1.4 - 2.2)	Luca 85	cs	
(19.7)	Yamamoto 85E	cs, p, pt	(52 - 60.8)	Amako 87	angp, cs	(3.87 - 4.5)	Osterheld 86	cs, cs, mult	
(29)	Abachi 89C	mass, p, pt	(55 - 56)	Sakai 87	angp	(5 - 7.4)	Edwards 89	cs, cs, mult	
(46.8)	Behrend 87	col, mult	(55 - 57)	Kim 88C	angp, cs	(7 - 42)	Bigi 84	angp, asym, cs	
(52)	Adachi 88B	angp, p	(55 - 57)	Tauchl 88	angp	(9.4 - 10.5)	Kaarsberg 89	cs	
(54 - 61.4)	Abe 90C	const, mult	(56)	Adachi 89D	cs	(10 - 44.72)	Marshall 89	angp, cs	
(56)	Maki 88	cs	(56 - 60.8)	Ogawa 89	angp, cs	(10 - 44.8)	Saxon 86	angp, asym, const, cs	
photino X				Sunmyoshi 88	angp		angp, asym, const, cs		
(46.8)	Behrend 87	-		Abe 89F	angp, cs	(10 - 45)	Naroska 87	angp, cs	
(50 - 57)	Kamae 88	col, cs		Unno 88	angp	(10.5 - 11.2)	Besson 85	col, cs, mult	
q X			$e^- e^+$	Maki 88	angp	(12 - 46)	Bartel 84G	angp, asym, const, cs	
(10)	Albrecht 85F	cs	< 0.0004	Nozaki 89	angp, const, cs	(12 - 48.6)	Marshall 85	angp, asym, const, cs	
(10.5)	Bowcock 89B	-	0.001 - 0.0017	Kozhuharov 88	cs	(13.86 - 44.77)	Bartel 85K	angp, asym, const, cs	
			0.0012 - 0.0013	Tsertos 89B	cs	(13.87 - 46)	Bartel 85K	cs	
\bar{q} X				Tsertos 88	cs	(14 - 44.6)	Adeva 85B	angp, asym, cs	
(10.5)	Bowcock 89B	-		Tsertos 88B	cs	(14 - 46.1)	Adeva 88	angp, asym, cs	
\bar{l} X				Wimmersperg 87	cs	(29)	Ash 85C	angp, asym, cs	
(40 - 46.7)	Adeva 85	-		Mills 87	cs		Derrick 85	angp, asym	
				Lorenz 88	cs, p		Fernandez 85j	angp, cs	
top X				0.0022 - 0.0024		(29 - 43.9)	Naroska 85	-	
(40 - 46.7)	Adeva 85	cs		Tsertos 89	cs	(29 - 44)	Barlow 87	angp	
(50 - 57)	Kichimi 88	cs		Klinken 88	cs	(29 - 44.1)	Wu 87	angp, asym	
				50 - 57	Kim 89B	angp, mass	(34.2 - 43.8)	Kiesling 85	-
\bar{t} X				244.6 - 1918	Vorobiev 88C	angp	(34.2 - 46.1)	Ouldsaada 88B	angp
(40 - 46.7)	Adeva 85	-		1654	Vasserman 87C	angp	(34.38 - 44.77)	Bartel 87	angp
				(< 2.4)	Salvini 88	angp	(34.6)	Berger 85E	angp, asym, p
				(10 - 45)	Naroska 87	angp, cs	(35)	Hegner 89	angp, asym, const
				(12 - 46.8)	Braunschweig 88B	angp			

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow \mu^- \mu^+$

$e^+ e^- \rightarrow \mu^- \mu^{*+} + \mu^+ \mu^{*-}$

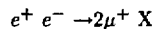
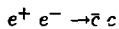
$e^+ e^-$		$e^+ e^-$		$e^+ e^-$	
$\mu^- \mu^+$		$\phi \pi^0$		$\tau^- \tau^+$	
	Braunschweig 88E angp, asym	1079 - 1918 1603 - 1918	Aulchenko 86C Aulchenko 87B	cs cs	
(35 - 56)	Kamae 88 angp, asym, cs	$\eta_c(1S) \gamma$ (3 - 3.2)	Bisello 88	cs, mass	(35)
(38.3 - 46.8)	Behrend 87E angp, asym, cs	$\tau^- \tau^+$ (3.5 - 7.2) (3.77)	Barish 88 Coffman 87	angp, cs	(35 - 36.3) (35 - 42.4)
(39.79 - 46.72)	Althoff 85 angp, cs	(9.3 - 10.6)	Albrecht 87L Janssen 90	- cs	(35 - 56)
(40 - 46.7)	Adeva 85 angp, asym	(9.4 - 10.6)	Albrecht 88C Albrecht 88O	- cs	(50 - 52)
(44)	Genser 89 cs		Albrecht 88P Albrecht 87C	cs -	(50 - 55) (50 - 56)
(50 - 52)	Miyamoto 87 angp, asym, cs		Albrecht 87I Albrecht 87T	- cs	-
(50 - 55)	Unno 88 angp, angp	(9.8 - 10.3)	Skwarnicki 87B Janssen 89	- -	-
(50 - 56)	Ko 88 angp, asym	(9.8 - 10.6)	Lowe 86C Albrecht 86E	- -	(50 - 57)
	Maki 88B angp, cs	(10)	Marshall 89 Saxon 86	angp, cs	(50 - 60.8)
	Rosenfeld 88 angp, asym	(10 - 44.72) (10 - 44.8)	angp, asym, const, cs Naroska 87 Keh 88B	angp, cs	(50 - 61.4)
	Shirai 88 angp, asym, cs	(10.34 - 11.18) (10.36 - 10.86)	Csorna 87 Bowcock 90	- -	(52 - 55)
(50 - 57)	Eno 89 col, const, cs	(10.5)	Baringer 87 Bebek 87	cs -	(52 - 56)
	Metcalf 89 cs	(10.58)	Heltsley 86 Bartel 85K	- cs	(52 - 57)
	Mcneil 88 angp, asym, const	(12 - 48.6)	Marshall 85 Althoff 84R	cs -	-
(50 - 60.8)	Sakuda 88 cs	(13.9 - 43.1)	Hayes 89B Adeva 88	- -	(52 - 60.8)
(50 - 61.4)	Abe 89P ang, asym, cs Kim 89E cs	(14 - 45) (10.2)	angp, asym, cs Behrend 89D angp, cs	- -	(54.4) (54.5)
	Kumita 89B cs	(14 - 46.1)	Adeva 86B angp, asym	-	(55 - 56)
(52)	Maki 89 asym, const, cs	(15 - 45)	Can 88 Abachi 89	angp, asym, const, cs	(56 - 60.8)
(52 - 55)	Adachi 87 angp, cs	(29)	Abachi 89B Stoker 89	cs cs	(56 - 60.8)
(52 - 56)	Bacala 88 angp, asym, const, cs		Amidei 88 Abachi 87	- -	-
	Bacala 88 angp, asym, cs		Abachi 87 Abachi 87F	- -	-
(52 - 57)	Kim 88B angp, asym, cs Metcalf 89 angp		Band 87 Bylsma 87	cs -	-
	Bacala 88B angp, asym, cs		Ford 87 Ford 87B	- angp, pol	-
	Ogawa 89 angp, cs		Ford 87C Gan 87	cs cs	$T(1S) \pi^0$ (10.2)
(52 - 60.8)	Abe 90 angp, cs		Gan 87B Abachi 86	cs -	$T(1S) \eta$ (10.2)
(54 - 61.4)	Tauchi 88 angp		Aihara 86J Burchat 86	cs -	$e^\pm e^\pm$ (52 - 56)
(54.4)	Olsen 88 angp, const		Burchat 86B Klem 86	- -	$e^+ e^-$ (50 - 56) (50 - 57) (56)
(54.5)	Sumiyoshi 88 angp, asym, cs		Ruckstuhl 86 Schmidke 86	cs, p -	$e^- e^+ + e^+ e^-$ (33 - 46.8)
(55 - 56)	Sumiyoshi 88 angp, asym, cs		Yelton 86 Akerlof 85B	cs cs	$\mu^\pm \mu^\pm$ (52 - 56)
(56 - 60.8)	Nozaki 89 angp, asym, const		Ash 85B Beltrami 85	cs -	$\mu^+ \mu^-$ (50 - 57) (52 - 60.8) (57)
(58.5 - 61.4)	Kumita 89 col, cs		Fernandez 85C angp, cs Fernandez 85D	angp, cs -	$\mu^- \mu^{*+}$ (50 - 57) (52 - 60.8)
(< 60)	Salvini 88 angp, cs		Forden 85B Gan 85	angp, cs -	$\mu^- \mu^{*+} + \mu^+ \mu^{*-}$ (33 - 46.8)
?	Sakai 87 Klein 84B angp		Koltick 85B Matteuzzi 85	angp, cs -	-
$2\pi^0$	1058 - 1918 Aulchenko 86C mass Dolinsky 89B		Mills 85 Goldhaber 85C	- -	-
$\pi^+ \pi^-$	126.8 - 1918 Barkov 85 angp, cs, mass, pwa	(29 - 34) (29 - 43.9)	Naroska 85 Barlow 87	angp angp, asym	-
978.5 - 1079	Dolinsky 89 cs Druzhinin 85 cs	(29 - 44.1) (30 - 46.78)	Wu 87 Bartel 85L	angp angp, asym, cs	-
(1.35 - 2.4)	Dolinsky 89 cs	(34.2 - 43.8)	Oudaada 88B angp	angp	-
(1.4 - 2.2)	Golubev 86 cs	(34.57 - 43.05)	Kiesling 85	-	-
(1.5 - 2.2)	Bisello 89B cs Luca 85 cs	(34.6)	Bartel 86F	-	-
(3.1)	Castro 88 cs Baltusaitis 85E cs				
$\eta \gamma$	244.6 - 1079 Dolinsky 89 p 978.5 - 1079 Landsberg 86				
$\eta \pi^0$	1079 - 1918 Aulchenko 86C cs Dolinsky 89B				
$\rho^0 \gamma$? 1079 - 1918 Aulchenko 86B mass				
$\omega \pi^0$	706.9 - 988.3 Aulchenko 87C cs 846.3 - 1891 Dolinsky 89B cs 978.5 - 1918 Dolinsky 86 cs				
	1079 - 1918 Landsberg 85 cs Aulchenko 86C cs Dolinsky 85				
$\eta' \gamma$	978.5 - 1079 Dolinsky 89 mass				
$\phi \pi^0$	1.28 - 1.4 Dolinsky 89B cs				
					Kim 88C -
					Maki 88B cs
					Kim 89B cs
					Adachi 89D cs
					Abe 88E cs
					Unno 88 -
					Shirai 88 -
					Maki 88B cs
					Kim 89B cs
					Adachi 89L cs
					Abe 88E cs
					Unno 88 -
					Shirai 88 -
					Behrend 86 mass
					Kim 88C -
					Kim 89B cs
					Adachi 89D cs
					Shirai 88 -
					Kim 89B cs
					Adachi 89D cs
					Shirai 88 -
					Behrend 86 mass
					Kim 88C -
					Kim 89B cs
					Adachi 89D cs
					Shirai 88 -
					Kim 89B cs
					Adachi 89D cs
					Shirai 88 -
					Behrend 86 mass

$e^+ e^- \rightarrow \tau^+ \tau^{*-}$

$e^+ e^- \rightarrow 2\text{lepton-quark}$

$e^+ e^-$			$e^+ e^-$			$e^+ e^-$		
$\tau^+ \tau^{*-}$ (30 - 46.78)	Bartel 86D	-	$\mu^{*+} \mu^{*-}$ (52 - 56)	Kim 88C	-	$\bar{\tau}^- \bar{\tau}^+$?	Adachi 89	-
$\tau^- \tau^{*+}$ (30 - 46.78)	Bartel 86D	-	(52 - 60.8)	Adachi 89D	cs	$K^+ K^-$ (1.35 - 2.4)	Isello 88B	cs
$\tau^- \tau^{*+} + \tau^+ \tau^{*-}$ (33 - 46.8)	Behrend 86	mass	(57)	Shirai 88	-	(1.5 - 2.2)	Castro 88	cs
$B \bar{B}$ (9.46)	Miestayer 85	-	$\tau^{*+} \tau^{*-}$ (33 - 46.8)	Behrend 86	mass	(3.1)	Baltrusaitis 85E	cs
(29)	Snyder 89	-	(52 - 60.8)	Adachi 89D	cs	2higgino (27 - 37)	Bartel 85E	-
$B(\text{unspec}) \bar{B}(\text{unspec})$ (10.57 - 10.59)	Wachs 89	-	(57)	Yamauchi 88	cs	(40 - 46.78)	Behrend 85	-
(10.76)	Alam 87	-	2Z' (50 - 60.8)	Kim 89E	cs	(50 - 60.8)	Sakai 90	cs
?	Wu 87	-	$B^+ B^-$ (10.58)	Miller 89	-	$\bar{\mu}^- \bar{\mu}^+$ (34.2)	Bartel 85D	cs
	Haas 85	-	(29 - 40)	Schubert 89	cs, p	(45)	Gan 88	-
heavy-lepton⁰ heavy-lepton⁰ (29)	Perl 85	cs	$B^0 \bar{B}^0$ (10.55)	Bebek 87B	cs	(50 - 60.8)	Sakai 90	cs
(36 - 45)	Gan 88	-	(10.58)	Gittelman 87	-	?	Sakai 89	-
(44.2)	Behrend 88C	mass	$D^0 \bar{D}^0$ (4.14)	Adler 88C	-	(52 - 55)	Yamauchi 88	cs
(50 - 60.8)	Sakai 89	-	(29 - 40)	Schindler 86	-	(52 - 57)	Takanashi 88	-
	Shaw 89	-	$D^+ D^-$ (4.14)	Adler 88C	-	(52 - 60.8)	Adachi 89B	-
$\bar{l}^0 e^0$?	Wu 87	-	$D^*(2010)^0 \bar{D}^0$ (4.14)	Adler 88C	-	$K_S^0 K_L^0$?	Adachi 89	-
$\bar{q}^* q^*$ (46.8)	Behrend 86C	-	$\bar{D}^*(2010)^0 D^0$ (4.14)	Adler 88C	-	978.5 - 1079	Druzhinin 85	cs
(52 - 60.8)	Ogawa 89	angp, cs	$D^*(2010)^+ D^-$ (4.14)	Adler 88C	-	(3.1)	Baltrusaitis 85E	cs
2B(unspec) (35 - 44)	Elsen 90	angp	$D^*(2010)^- D^+$ (4.14)	Adler 88C	-	?	Dolinsky 89B	cs
$e^- e^{*+}$ 244.6 - 1918	Aulchenko 86	cs	$D_S^+ D_S^-$ (4.14)	Wasserbaech 89	-	2K_S (3.1)	Baltrusaitis 85E	cs
(33 - 46.8)	Behrend 86	mass	(4.14)	Schindler 89	-	2charged-meson (35 - 44)	Elsen 90	angp
(50 - 56)	Maki 88B	cs	$D^*(2010)^0 D^0$ (4.14)	Adler 88C	-	$D_S^+ D_S^-$ (4.14)	Adler 89E	-
(50 - 57)	Kim 89B	cs	$D^*(2010)^+ D^-$ (4.14)	Adler 88C	-	(4.14)	Toki 89B	-
(52 - 56)	Kim 88C	cs	$D^*(2010)^- D^+$ (4.14)	Adler 88C	-	$p \bar{p}$ (1.9 - 2.4)	Castro 88	cs
(52 - 60.8)	Adachi 89D	cs	$D_S^+ D_S^-$ (4.14)	Wasserbaech 89	-	(3 - 3.2)	Pallin 87	angp
(56)	Abe 88E	cs	(4.14)	Schindler 89	-	?	Sedlak 88	angp
	Unno 88	-	$D^*(2010)^0 \bar{D}^*(2010)^0$ (4.14)	Adler 88C	-	$\pi \bar{\pi}$ (2.4)	Castro 88	cs
(57)	Shirai 88	cs	$D^*(2010)^+ D^*(2010)^-$ (4.14)	Adler 88C	-	$\Lambda \bar{\Lambda}$ (2.4)	Castro 88	cs
	Yamauchi 88	cs	$D^*(2010)^0 D^*(2010)^0$ (4.14)	Adler 88C	-	(3 - 3.2)	Pallin 87	angp
2heavy-e ?	Dolinsky 89B	-	$D^*(2010)^+ D^*(2010)^-$ (4.14)	Adler 88C	-	$\Lambda \bar{\Sigma}^0$ (2.4)	Castro 88	cs
2heavy-lepton (56)	Kim 88	-	$D_S^{*+} D_S^-$ (4.14)	Bai 90	cs	$\Sigma^0 \bar{\Sigma}^0$ (2.4)	Castro 88	cs
heavy-lepton⁻ heavy-lepton⁺ (29)	Mathis 88	cs	(4.14)	Alder 89	cs	(3 - 3.2)	Castro 88	angp
(36 - 45)	Gan 88	-	$D_S^{*+} D_S^-$ (4.14)	Browder 89	cs	chargino⁺ chargino⁻ (52 - 57)	Takahashi 88	-
(44.2)	Behrend 88C	mass	(4.14)	Blaylock 87	cs	(52 - 60.8)	Adachi 89B	-
(50 - 52)	Igarashi 87	-	$D_S^{*+} D_S^-$ (4.14)	Wasserbaech 87	cs	?	Adachi 89	-
(50 - 56)	Ko 88	-	(4.14)	Schindler 86	cs	7 axion 0	Atoyan 90	cs
	Maki 88B	cs	$D_S^{*+} D_S^-$ (4.14)	Adler 88C	cs, cs, cs	1079 - 1918	Gninenko 89	cs
(50 - 60.8)	Shirai 88	cs	(4.14)	Wu 87	angp, asym	(9.46)	Aulchenko 86C	cs
(52)	Kim 89E	angp, p	$D_S^{*+} D_S^-$ (4.14)	Toki 86	-	7 higgs (50 - 52)	Mageras 86	cs, mass
	Adachi 88B	angp, p	(4.14)	Bai 90	cs	$\mu^+ \text{jet}$ (14 - 46.8)	Igarashi 87	-
	Amako 87	cs	$D_S^{*+} D_S^- + D_S^{*-} D_S^+$ (4.14)	Alder 89	cs	$\mu^- \text{jet}$ (14 - 46.8)	Adeva 86B	ang
(52 - 55)	Yamauchi 88	cs	(4.14)	Browder 89	cs	$q^* \bar{q}$ (46.8)	Adeva 86B	ang
(52 - 60.8)	Adachi 89B	-	$\bar{D}_S^{*+} \bar{D}_S^- + \bar{D}_S^{*-} \bar{D}_S^+$ (4.14)	Pitman 89	cs	(46.8)	Behrend 86C	-
(55 - 56)	Sumiyoshi 88	-	(4.14)	Schindler 88	cs	(46.8)	Behrend 86C	-
(56)	Abe 88D	cs	$\bar{D}_S^{*+} \bar{D}_S^- + \bar{D}_S^{*-} \bar{D}_S^+$ (4.14)	Blaylock 87	cs	(46.8)	Behrend 86C	-
	Kim 88D	cs	(4.14)	Stockdale 87	cs	$\bar{q}^* q$ (46.8)	Behrend 86C	-
	Unno 88	-	$\bar{D}_S^{*+} \bar{D}_S^- + \bar{D}_S^{*-} \bar{D}_S^+$ (4.14)	Wasserbaech 87	cs	(46.8)	Behrend 86C	-
?	Wu 87	-	(4.14)	Schindler 86	cs	(46.8)	Behrend 86C	-
2heavy-lepton⁰ (50 - 60.8)	Kim 89E	cs	$\bar{D}_S^{*+} \bar{D}_S^- + \bar{D}_S^{*-} \bar{D}_S^+$ (4.14)	Toki 86	cs, cs, cs	wino⁻ wino⁺ (14 - 17)	Bartel 85F	-
2t (9.45 - 10.57)	Cassel 85	cs	higgino zino (46.8)	Behrend 87	-	2e-color[±] (50 - 60.8)	Kim 89E	cs
$\ell^+ \ell^-$ (40 - 46.7)	Adeva 85	-	$\bar{\tau}^- \bar{\tau}^+$ (45)	Gan 88	-	2lepton-quark (50 - 60.8)	Kim 89E	cs
(50 - 60.8)	Sakai 89	-	(52 - 55)	Yamauchi 88	cs	(50 - 60.8)	Kim 89E	cs
?	Stoker 89	-	(52 - 60.8)	Adachi 89B	cs	(50 - 60.8)	Kim 89G	cs
2lepton-colored (50 - 60.8)	Kim 89G	cs						
$\mu^{*+} \mu^{*-}$ (33 - 46.8)	Behrend 86	mass						
(50 - 56)	Maki 88B	cs						
(50 - 57)	Kim 89B	cs						

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.



$e^+ e^-$	$e^+ e^-$	$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$\bar{c} c$	$2jet$	$e^- e^+ X$		
(35 - 43) Behrend 89J angp, const	(29) Bethke 89B p	(9.5 - 10.65) Maschmann 89 mass		
Kroha 89B asym, cs	Ash 87 ang	(10) Albrecht 88F mass, p		
Ouldsaada 88B asym	Aihara 85C cor, mult	Grab 87 mass, p		
(35 - 44) Elsen 90 const	Goldhaber 85C angp, cs	Hurst 89 cs, p		
Wu 87 asym	Bender 84C angp, cs	Wu 86 -		
$\bar{b} b$		Kolanoski 85 -		
(34) Naroska 87 angp	(30 - 46.78) Bartel 85L ang, mass, p	(32 - 46.78) Bartel 85C ang		
(34.6) Marshall 89 angp	(35) Braunschweig 89L ang, col, mass	(34.6) Berger 85F ang		
(35 - 43) Behrend 89J angp, const	(35 - 44) Greenshaw 89 angp, asym	(46.8) Behrend 87 -		
Kroha 89B asym, cs	(39 - 46.8) Bartel 87 ang	Masuda 88 cs		
Ouldsaada 88B asym	(44) Barlow 87 cs	Sasaki 89 -		
Elsen 90 const	(50 - 56) Maki 88B cs	Kolanoski 85 ?		
(35 - 44) Kim 89E angp, cs	(50 - 57) Park 89B cs	$2e^+ X$ (29)		
(50 - 60.8) Sagawa 89 angp, cs	(50 - 60.8) Kamae 88 col, cs	Hurst 89 cs, p		
(52 - 57) Nozaki 89 angp, asym, const	Stuart 90 asym	Schaad 85 cs, p, pt		
(56 - 60.8) Wu 87 asym	Bodek 89 -	$2e^- X$ (29)		
? bottom bottom	Kim 89C -	Hurst 89 cs, p		
(29) Brom 87 -	Kim 89E angp, mass	Schaad 85 cs, p, pt		
Sakuda 85 angp, cs	Parke 88 angp	μ^+ mult[charged] X (29)		
(34.6) Saxon 86 cs, p, pt	Ogawa 89 col, cs	Wagner 89B col, pt		
Kiesling 85 -	Abe 89K angp	μ^- mult[charged] X (29)		
Marshall 85 cs	Salvini 88 angp, cs, p, pt	Wagner 89B col, pt		
$\bar{d}' d'$	(89.2 - 93) Abrams 89D cs	Porter 89 cs, p, pt		
(50 - 60.8) Eno 89B col	Wu 87 asym	Hurst 89 cs, p		
Eno 89C -	$2longlived$ (89.2 - 93) Jung 89 cs	Schaad 85 cs, p, pt		
(55 - 60.8) Abe 89J -	$2monopole$ (35) Braunschweig 88 -	$\mu^+ e^- X$ (10)		
$q \bar{q}$	(50 - 56) Maki 88B cs	Albrecht 88F mass, p		
978.5 - 1918 Bondar 84 cs	Wu 87 ?	Grab 87 mass, p		
(29) Rowson 85 -	$2photon$ (55 - 57) Abe 89F -	Mathis 88 p		
Bender 84C angp	$2unspec$ 978.5 Dolinsky 89B cs	Grab 87 cs, mass		
(50 - 52) Sagawa 88 cs	$2sparticle$ (46.8) Behrend 87 -	Riles 87 cs, mass		
(50 - 57) Igarashi 87 col, cs	(50 - 60.8) Sakai 89 -	$\mu^- e^+ X$ (10)		
(50 - 61.4) Kamae 88 col, cs	(52 - 55) Yamauchi 88 cs	(29) Albrecht 88F mass, p		
Myung 89 -	$\bar{e}^- \bar{e}^+$ (32 - 46.78) Bartel 85C cs	Grab 87 cs, p		
Derrick 85G -	(45) Gan 88 -	Hurst 89 cs, p		
$\bar{q} \bar{q}$	(50 - 60.8) Sakai 90 cs	Schaad 85 cs, p, pt		
(50 - 60.8) Sakai 90 cs	(50 - 60.8) Takahashi 88 -	$\pi^+ e^+ X$ (29)		
(52 - 57) Takahashi 88 -	(52 - 55) Yamauchi 88 cs	(29) Aihara 87C mult, p, pt		
(52 - 60.8) Adachi 89B -	$2charged^+ charged^- X$ (29 - 37) Althoff 85F cor, mult, p	Mathis 88 p		
Adachi 89 -	$2charged X$ (52 - 56) Bacala 88 angp, asym, cs	Aihara 87C mult, p, pt		
$top top$	(52 - 57) Bacala 88B angp, asym, cs	$2\mu^+ X$ (29)		
(50 - 52) Adachi 88C cs	$2charged^+ X$ (29 - 37) Althoff 85F cor, mult, p	Porter 89 cs, p, pt		
(50 - 56) Ko 88 -	$2charged^- X$ (29 - 37) Althoff 85F cor, mult, p	$\mu^- \mu^+ X$ (10)		
Shirai 88 cs	$e^+ \gamma X$ 978.5 - 1079 Druzhinin 88 cs	(10.6 - 11.2) Albrecht 88F mass, p		
Son 88 -	$e^- \gamma X$ 978.5 - 1079 Druzhinin 88 cs	Grab 87 mass, p		
Myung 89 -	$e^+ mult[charged] X$ (29) Wagner 89B col, pt	Haas 85 mass		
(50 - 61.4) Sugahara 88 cs	$e^- mult[charged] X$ (29) Wagner 89B col, pt	Hurst 89 cs, p		
(55) Sumiyoshi 88 cs	$e^- e^+ X$ 15 - 10 ³ Kolanoski 87 -	Eand 88 p, pt		
(55 - 56) Sumiyoshi 88 cs		Wormser 88 mass		
(57) Yamauchi 88 cs		Wu 86 -		
$\bar{t} t$		(34.2) Bartel 85D ang, pt		
(50 - 52) Abe 87C cs		(34.6) Naroska 87 cs		
Amako 87 cs		Berger 85F -		
Yoshida 87B cs		Behrend 87 -		
(52 - 60.8) Ogawa 89 angp, cs		Maki 88 asym, p		
$2gaugino$ (52 - 55) Yamauchi 88 cs				
$2higgs$ (27 - 37) Bartel 85E -				
(29) Komamiya 89 cs				
(40 - 46.78) Behrend 85 -				
(50 - 60.8) Low 89 -				
$higgs^+ higgs^-$ (40 - 47) Ouldsaada 88B -				
(42.5 - 46.8) Behrend 87C cs				
(50 - 60.8) Kim 89E cs				
(52 - 61.4) Adachi 90C cs				
? Wu 87 -				
$2jet$ (9.4 - 35) Berger 85 ang, cs, p				
(10 - 45) Mattig 89 ang, cor, et				
(14 - 43) Barreiro 85B p				
(14 - 44) Naroska 87 cs, p, pt				
Bartel 86H p				
(14 - 46.8) Behrend 89C mass				
(15 - 30) Braunschweig 88G angp				

$e^+ e^- \rightarrow 2\mu^- X$ $e^+ e^- \rightarrow K^- \mu^- X$

$e^+ e^-$				$e^+ e^-$				$e^+ e^-$				
$2\mu^- X$ (29)	Hurst 89 Schaad 85	cs, p cs, p, pt		$\phi \pi^- X$ (4.14)	Blaylock 87 Wasserbaech 87	mass		$D^0 \pi^+ X$ (9.4 - 10.6) (10) (10.38 - 10.58) (29)	Albrecht 85 Albrecht 89V Csorna 85 Abachi 89C Abachi 88 Baringer 88 Wagner 87 Abachi 86B Aihara 86E Yamamoto 85	mass mass mass cs mass mass mass mass mass ang, mass		
$\mu^- \mu^+ X + e^- e^+ X$ (29)	Wu 86			(9.4 - 10.6)	Toki 86 Albrecht 88J Albrecht 85D Chen 89B Averill 89 Bartel 85G Derrick 85C	cs, mass cs, mass ang, mass mass mass mass mass						
$\pi^+ \mu^+ X$ (29)	Aihara 87C	mult, p, pt		(10.5)								
$\pi^- \mu^+ X$ (29)	Aihara 87C	mult, p, pt		(29)								
$\pi^+ \mu^- X$ (29)	Aihara 87C	mult, p, pt		$a_1(1260)^+ \text{ charged } X +$ $a_1(1260)^- \text{ charged } X$ (10)	Albrecht 86E			(42.2)	Yamamoto 85B Yamamoto 85C Althoff 86C	ang, mass ang, mass mass mass		
$\pi^- \mu^- X$ (29)	Aihara 87C	mult, p, pt		$\tau^- \tau^+ X$ (10 - 60) (30 - 46.7) (46.8) (50 - 55) (56)	Kass 89 Kleinwort 89 Behrend 87 Masuda 88 Maki 88			$D^0 \pi^- X$ (29)	Yamamoto 85	ang, mass		
$\pi^0 \pi^\pm X$ (29)	Gan 85B			$B \bar{B} X$ (29)	Band 89			$\bar{D}^0 \pi^+ X$ (9.4 - 10.6)	Albrecht 85	mass		
$2\pi^+ X$ (3.095 - 29) (29) (29 - 37) (34) (44)	Juricic 88 Avery 89 Althoff 85F Althoff 85E Barlow 87	ang, p cor cor, mass cor, mass		$2\ell^+ X$ (10.55)	Franzini 89 Itep 89 Franzini 89 Itep 89	cs, p cs, p cs, p cs, p		$\bar{D}^0 \pi^- X$ (29)	Csorna 85 Abachi 88 Baringer 88 Wagner 87 Aihara 86E Yamamoto 85B	mass mass mass mass mass ang, mass mass		
$2\pi^- X$ (3.095 - 29) (29) (29 - 37) (34) (44)	Juricic 88 Avery 89 Althoff 85F Althoff 85E Barlow 87	ang, p cor cor, mass cor, mass		$2\ell^- X$ (10.55)	Franzini 89 Itep 89 Franzini 89 Itep 89	cs, p cs, p cs, p cs, p		(42.2)	Yamamoto 85C Althoff 86C	ang, mass mass		
$\pi^+ \pi^- X$ (9.46 - 10.49) (10) (29)	Behrends 85 Behrend 89F Abachi 89C Abachi 89D Avery 89 Edberg 88 Abachi 86C Baden 86 Derrick 85F Althoff 85F Althoff 85E Barlow 87 Miyamoto 87	ang mass mass mass, p cor mass mass mass, p cor, mass cor, mass mass		$\ell^+ \ell^- X$ (10.55)	Franzini 89 Itep 89 Franzini 89 Itep 89	cs, p cs, p cs, p cs, p		$D^+ \pi^- X$ (29)	Abachi 88	mass		
$\eta \pi^\pm X$ (4.14) (29)	Adler 89E Wormser 87	mass cs, mass		$2\bar{D} X$ (46.8)	Behrend 87			$D^- \pi^+ X$ (29)	Abachi 88	mass		
$\eta \pi^+ X$ (4.14)	Stockdale 87	cs, mass		$B^0 \bar{B}^0 X$ (29)	Porter 89 Band 88 Schaad 85 Franzini 89 Itep 89	cs, p cs, p cs, p cs, p cs, p		$D^*(2010)^- e^+ X$ (29)	Wagner 89B	pt		
$\rho^0 \gamma X$ (10)	Albrecht 90	cs, mass		$2\bar{D}^0 X$ (46.8)	Behrend 87			$D^*(2010)^+ e^- X$ (29)	Wagner 89B	pt		
$\eta' \pi^\pm X$ (4.14) (29)	Adler 89E Wormser 87	mass cs, mass		$B^0 B_S X$ (29)	Porter 89			$D_S^- \pi^+ X$ (29)	Wormser 88B	cs, mass		
$\eta' \pi^+ X$ (10) (29)	Albrecht 90 Wormser 88B	cs, mass cs, mass		$\bar{B}^0 \bar{B}_S X$ (29)	Porter 89			$D_S^+ \pi^- X$ (29)	Wormser 88B	cs, mass		
$\eta' \pi^- X$ (29)	Wormser 88B	cs, mass		$B_S \bar{B}_S X$ (29)	Porter 89 Schaad 85 Franzini 89 Itep 89	cs, p cs, p cs, p cs, p		$D^*(2010)^- \mu^+ X$ (29)	Wagner 89B	pt		
$f_0(975) \pi^\pm X$ (4.14)	Adler 89E Toki 89B	mass cs, mass		$D^0 \gamma X$ (29)	Low 87 Bartel 85G	mass mass		$D^*(2010)^+ \mu^- X$ (29)	Wagner 89B	pt		
$\phi \pi^+ X$ (4.14)	Blaylock 87 Wasserbaech 87	mass cs, mass		$\bar{D}^0 \gamma X$ (29)	Low 87 Bartel 85G	mass mass		$D^*(2010)^+ \pi^- X$ (10) ?	Albrecht 89V Augustin 85E	mass -		
(9.4 - 10.6)	Toki 86 Albrecht 88J Albrecht 85D Albrecht 90 Albrecht 86F Chen 89B Haas 86 Averill 89 Bartel 85G Derrick 85C	cs, mass cs, mass ang, mass cs, mass mass mass mass mass mass		$D_S^- \gamma X$ (9.4 - 10.6)	Albrecht 87N Albrecht 85B Bartel 85G	mass mass mass		$D^*(2010)^+ \pi^- X + D^*(2010)^- \pi^+ X$ (10) ?	Albrecht 86B Rosner 85E	mass -		
(10)				$D_S^+ \gamma X$ (9.4 - 10.6)	Albrecht 87N Albrecht 85B Bartel 85G	mass mass mass		$K^+ e^+ X$ (29)	Aihara 87C	mult, p, pt		
(10.5)				$D^0 \pi^0 X$ (29)	Low 87 Bartel 85G	mass mass		$K^+ e^- X$ (29)	Aihara 87C	mult, p, pt		
(29)				$\bar{D}^0 \pi^0 X$ (29)	Low 87 Bartel 85G	mass mass		$K^- e^+ X$ (29)	Aihara 87C	mult, p, pt		
								$K^- e^- X$ (29)	Aihara 87C	mult, p, pt		
								$K^+ \mu^+ X$ (29)	Aihara 87C	mult, p, pt		
								$K^+ \mu^- X$ (29)	Aihara 87C	mult, p, pt		
								$K^- \mu^+ X$ (29)	Aihara 87C	mult, p, pt		
								$K^- \mu^- X$ (29)	Aihara 87C	mult, p, pt		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow K^+ \pi^+ X$ $e^+ e^- \rightarrow \Xi^+ \pi^- X$

$e^+ e^-$		$e^+ e^-$		$e^+ e^-$	
$K^+ \pi^+ X$ (29)	Abachi 87C	mass	$\bar{K}_S^0(1780)^0 \gamma X$ (10.6)	Albrecht 88E	mass
$K^+ \pi^- X$ (4.14) (9.4 - 10.6) (10.58) (29)	Adler 88C Albrecht 88J Csorna 87B Abachi 89D Averill 89 Baringer 88 Edberg 88 Low 87 Abachi 86C Derrick 85B Derrick 85F Althoff 86C	mass mass mass mass, p mass mass mass mass mass mass, p mass	$K^+ K^- X$ (9.46 - 10.49) (10.45) (10.57 - 10.58) (10.58) (29) (34)	Behrends 85 Albrecht 88K Bartoletto 86 Csorna 87B Edberg 88 Althoff 85E	ang mass mass mass mass cor. mass
$K^- \pi^+ X$ (4.14) (9.4 - 10.6) (10) (10.58) (29)	Adler 88C Albrecht 88J Albrecht 88S Csorna 87B Abachi 89D Averill 89 Baringer 88 Abachi 87C Low 87 Derrick 85B Derrick 85F Althoff 86C	mass mass mass mass mass, p mass mass mass mass mass, p mass	$2K^+ X$ (34)	Althoff 85E	cor. mass
$K^+ \pi^- X + K^- \pi^+ X$ (10.58) (29) ?	Heltsley 86 Gladney 85 Rosner 85E	- - -	$2K^- X$ (34)	Althoff 85E	cor. mass
$K^*(892)^+ \gamma X$ (10.6)	Albrecht 88E	mass	$K^+ \bar{K}^0 X$ (4.14)	Bai 90 Alder 89 Chen 89B	cs. mass cs. mass mass
$K^*(892)^- \gamma X$ (10.6)	Albrecht 88E	mass	$K^0 K^- X$ (4.14)	Bai 90 Alder 89 Chen 89B	cs. mass cs. mass mass
$K^*(892)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$K^*(892)^0 K^- X$ (4.14)	Bai 90 Alder 89 Toki 86 Chen 89B	cs. mass cs. mass cs. mass mass
$K^*(892)^- \pi^+ X$ (10)	Albrecht 86F	-	$\bar{K}^*(892)^0 K^+ X$ 10 (4.14)	Albrecht 85M Bai 90 Alder 89 Toki 86 Albrecht 86F Cheu 89B	cs. mass cs. mass cs. mass cs. mass mass
$K^+ \rho^- X + K^- \rho^+ X$?	Rosner 85E	-	$K^*(892)^- K^0 X$ (10) (10.5)	Chen 89B	mass
$K_1(1400)^+ \gamma X$ (10.6)	Albrecht 88E	mass	$K^*(892)^+ \bar{K}^0 X$ (10.5)	Chen 89B	mass
$K_1(1400)^- \gamma X$ (10.6)	Albrecht 88E	mass	$K^*(892)^+ \bar{K}^*(892)^0 X$ (4.14)	Bai 90 Alder 89	cs. mass cs. mass
$K_1(1400)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$K^*(892)^0 K^*(892)^- X$ (4.14)	Bai 90 Alder 89	cs. mass cs. mass
$\bar{K}_1(1400)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$\bar{\mu}^- \bar{\mu}^+ X$ (46.8)	Behrend 87	-
$K_2^+(1430)^+ \gamma X$ (10.6)	Albrecht 88E	mass	$K_S \pi^+ X$ (10) (29)	Behrend 89F Abachi 87B	mass mass
$K_2^+(1430)^- \gamma X$ (10.6)	Albrecht 88E	mass	$K_S \pi^- X$ (10) (29)	Behrend 89F Abachi 87B	mass mass
$K_2^+(1430)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$K_S \phi X$ (9.4 - 10.6)	Albrecht 87E	ang. mass
$\bar{K}_2^+(1430)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$K^+ K_S X$ (4.14)	Toki 86	cs. mass
$K^0 \phi X + \bar{K}^0 \phi X$ (10.58)	Bebek 86	mass	$K_S K^- X$ (4.14)	Toki 86	cs. mass
$K_S^+(1780)^+ \gamma X$ (10.6)	Albrecht 88E	mass	$p e^+ X$ (29)	Aihara 87C	mult. p. pt
$K_S^+(1780)^- \gamma X$ (10.6)	Albrecht 88E	mass	$p e^- X$ (29)	Aihara 87C	mult. p. pt
$K_S^+(1780)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$\bar{p} e^+ X$ (29)	Aihara 87C	mult. p. pt
$K_S^+(1780)^0 \gamma X$ (10.6)	Albrecht 88E	mass	$\bar{p} e^- X$ (29)	Aihara 87C	mult. p. pt
			$p \mu^+ X$ (29)	Aihara 87C	mult. p. pt
			$p \mu^- X$ (29)	Aihara 87C	mult. p. pt
			$\bar{p} \mu^+ X$ (29)	Aihara 87C	mult. p. pt
			$\bar{p} \mu^- X$ (29)	Aihara 87C	mult. p. pt
			$\bar{p} \pi^+ X$ (29)	Aihara 87C	mult. p. pt
			$\bar{p} \pi^- X$ (29)	Aihara 87C	mult. p. pt
			$\bar{p} \pi^+ X + \bar{p} \pi^- X$ (10)	Albrecht 88I	mass
			$\Lambda_c^+ \pi^+ X$ (10) (10.5)	Albrecht 88H Bowcock 89	mass mass
			$\Lambda_c^+ \pi^- X$ (10) (10.5)	Albrecht 88H Bowcock 89	mass mass
			$\bar{\Lambda}_c^- \pi^+ X$ (10)	Albrecht 88H	mass
			$\bar{\Lambda}_c^- \pi^- X$ (10)	Albrecht 88H	mass
			$\Lambda \gamma X + \bar{\Lambda} \gamma X$ (10)	Albrecht 88I	mass
			$\Lambda e^+ X$ (29)	Klein 89	cs. mass
			$\bar{\Lambda} e^- X$ (29)	Klein 89	cs. mass
			$\Lambda \mu^+ X$ (29)	Klein 89	cs. mass
			$\bar{\Lambda} \mu^- X$ (29)	Klein 89	cs. mass
			$\Lambda \pi^+ X$ (10) (29)	Albrecht 86G Abachi 87D	mass mass
			$\Lambda \pi^- X$ (10) (29)	Albrecht 86G Abachi 87D	mass mass
			$\bar{\Lambda} \pi^+ X$ (29)	Abachi 87D	mass
			$\bar{\Lambda} \pi^- X$ (29)	Abachi 87D	mass
			$\Lambda \pi^+ X + \bar{\Lambda} \pi^- X$ (10)	Albrecht 88I	mass
			$\Lambda \pi^- X + \bar{\Lambda} \pi^+ X$ (10)	Albrecht 88I	mass
			$p K^- X$ (9.4 - 10.6)	Albrecht 88Q	mass
			$p \bar{K}^0 X$ (9.46 - 10.6)	Albrecht 88D	mass
			$\bar{p} K^0 X$ (9.46 - 10.6)	Albrecht 88D	mass
			$\Xi^- \pi^+ X$ (10) (10.5) (29)	Albrecht 86G Avery 88 Klein 88 Klein 87	mass mass mass, mass mass
			$\Xi^+ \pi^- X$ (10.5) (29)	Avery 88 Klein 88 Klein 87	mass mass mass

$$e^+ e^- \rightarrow \Lambda K^- X$$

$$e^+ e^- \rightarrow \mu^- \mu^+ \gamma$$

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$\Lambda K^- X$ (10) Albrecht 86G mass	$e^+ \text{ jet } X$ (35 - 43) Kroha 89B col. pt	$\mu^\pm \text{ mult[charged] (neutrals)}$ (30 - 40) Venkataraman 85B col, cs, pt	$\mu^\pm \text{ mult[charged] (neutrals)}$ (30 - 40) Venkataraman 85B col, cs, pt
$\Lambda K^- X + \bar{\Lambda} K^+ X$ (10) Albrecht 88I mass	$e^- \text{ jet } X$ (35 - 43) Kroha 89B col. pt	$\text{mult}[\gamma] \text{ 2charged}$ (9.4 - 10.6) Skwarnicki 87B ang, mass	$\text{mult}[\gamma] \text{ 2charged}$ (9.4 - 10.6) Skwarnicki 87B ang, mass
$\Omega^- \pi^+ X$ (29) Klein 88 mass	$\mu^\pm \text{ jet } X$ (30 - 40) Venkataraman 85B col. pt	gluon charged jet (22 - 38) Braunschweig 89E p	gluon charged jet (22 - 38) Braunschweig 89E p
$\Xi^- K^+ X$ (29) Klein 88 mass	$\mu^+ \text{ jet } X$ (35 - 43) Kroha 89B col. pt	charged 2jet (22 - 38) Braunschweig 89E p	charged 2jet (22 - 38) Braunschweig 89E p
$\Lambda K_S X$ (9.46 - 10.49) Behrends 85 ang	$\mu^- \text{ jet } X$ (35 - 43) Kroha 89B col. pt	$\nu \bar{\nu} \gamma$ 29 - 42.6 Wu 87 cs Hearty 87 cs Johnson 87 cs Ford 86 - Grivaz 88 cs Behrend 88D cs Maki 89 cs Abe 89I -	$\nu \bar{\nu} \gamma$ 29 - 42.6 Wu 87 cs Hearty 87 cs Johnson 87 cs Ford 86 - Grivaz 88 cs Behrend 88D cs Maki 89 cs Abe 89I -
$\bar{\Lambda} K_S X$ (9.46 - 10.49) Behrends 85 ang	$l^\pm \text{ charged-hadron } X$ (29) Rowson 85B col	$2\mu \gamma$ (35 - 42.6) Ouldsaada 88B -	$2\mu \gamma$ (35 - 42.6) Ouldsaada 88B -
$p \bar{p} X$ (9.46 - 10.49) Behrends 85 ang Albrecht 89B angp, cor, pt	$\text{mult[lepton] mult[hadron] } X$ (56) Kim 88 col	3γ 0 Atocyan 90 cs Gninenko 89 cs Chang 85 p	3γ 0 Atocyan 90 cs Gninenko 89 cs Chang 85 p
(29) Aihara 86F p Madaras 86 - Aihara 85G ang, cor - Hofmann 85 -	$D^*(2010)^+ \text{ hadron}^+ X$ (29) Kesten 85 mult, p, pt	244.6 - 1079 Dolinsky 89 cs, mass, p 978.5 - 1079 Dolinsky 89 mass, p 1079 - 1918 Aulchenko 86B ang, cs, mass (29) Fernandez 87B angp, cs, mass	244.6 - 1079 Dolinsky 89 cs, mass, p 978.5 - 1079 Dolinsky 89 mass, p 1079 - 1918 Aulchenko 86B ang, cs, mass (29) Fernandez 87B angp, cs, mass
$2p X$ (9.46 - 10.49) Behrends 85 ang	$D^*(2010)^+ \text{ hadron}^- X$ (29) Kesten 85 mult, p, pt	(34) Naroska 87 angp, p (35) Kamae 88 ang, cs, p Naroska 87 cs Behrend 88B - (55 - 57) Abe 89F angp, mass, p ang, angp, cs, mass	(34) Naroska 87 angp, p (35) Kamae 88 ang, cs, p Naroska 87 cs Behrend 88B - (55 - 57) Abe 89F angp, mass, p ang, angp, cs, mass
$2\bar{p} X$ (9.46 - 10.49) Behrends 85 ang Aihara 86F p	$D^*(2010)^- \text{ hadron}^+ X$ (29) Kesten 85 mult, p, pt	$e^- e^+ \gamma$ 9.784 - 1075 Druzhinin 84 ang, angp, cs, mass	$e^- e^+ \gamma$ 9.784 - 1075 Druzhinin 84 ang, angp, cs, mass
$2p X + 2\bar{p} X$ (10) Albrecht 90B ang, p	$D^*(2010)^- \text{ hadron}^- X$ (29) Kesten 85 mult, p, pt	50 - 57 Kim 89B angp, mass 978.5 - 1079 Dolinsky 89B ang, cs, mass	50 - 57 Kim 89B angp, mass 978.5 - 1079 Dolinsky 89B ang, cs, mass
$p \Lambda X$ (9.46 - 10.49) Behrends 85 ang	$(\text{jets}) \text{ jet } X$ (14 - 44) Genser 89 col, p, pt	1058 - 1918 Aulchenko 86C mass (14 - 22) Kiesling 85 - (14 - 46.8) Behrend 85B angp, mass, p (29) Karlen 88B cs, mass Karlen 88C - Peri 86 ang, cs, p, pt Behrend 86 mass Naroska 87 angp, mass, p (35) Naroska 87 cs (40 - 45) Saxon 86 mass, p (52 - 56) Kim 88C angp, asym, cs, mass (55 - 56) Sumiyoshi 88 mass Abe 88E angp, mass Maki 88 cs Unno 88 mass Shirai 88 ang, mass Dolinsky 89 -	1058 - 1918 Aulchenko 86C mass (14 - 22) Kiesling 85 - (14 - 46.8) Behrend 85B angp, mass, p (29) Karlen 88B cs, mass Karlen 88C - Peri 86 ang, cs, p, pt Behrend 86 mass Naroska 87 angp, mass, p (35) Naroska 87 cs (40 - 45) Saxon 86 mass, p (52 - 56) Kim 88C angp, asym, cs, mass (55 - 56) Sumiyoshi 88 mass Abe 88E angp, mass Maki 88 cs Unno 88 mass Shirai 88 ang, mass Dolinsky 89 -
$\bar{p} \Lambda X$ (9.46 - 10.49) Behrends 85 ang Aihara 86F p	$\text{charged-hadron hadron}^+ X$ (29) Kesten 85 mult, p, pt	(57) ?	(57) ?
$p \bar{\Lambda} X$ (9.46 - 10.49) Behrends 85 ang Aihara 86F p	$\text{charged-hadron hadron}^- X$ (29) Kesten 85 mult, p, pt	$\pi^0 e^- e^+$ 565.2 - 626.2 Dolinsky 88 ang, cs, mass	$\pi^0 e^- e^+$ 565.2 - 626.2 Dolinsky 88 ang, cs, mass
$\bar{p} \bar{\Lambda} X$ (9.46 - 10.49) Behrends 85 ang Aihara 86F p	$X 2\bar{q}$ (46.8) Behrend 87	1058 - 1918 Aulchenko 86C mass (9 - 29) Gidal 88C cs (9.4 - 10.6) Williams 88 mass, pt (29) Kolanoski 85 - Dolinsky 89 - Kolanoski 85 -	1058 - 1918 Aulchenko 86C mass (9 - 29) Gidal 88C cs (9.4 - 10.6) Williams 88 mass, pt (29) Kolanoski 85 - Dolinsky 89 - Kolanoski 85 -
$\Lambda \bar{\Lambda} X$ 38.4 - 42.1 Braunschweig 89I cs (9.46 - 10.49) Behrends 85 ang (10) Albrecht 89B angp, cor, pt	$2\text{gluon } X$ (46.8) Behrend 87	?	?
(29) Aihara 86F p Madaras 86 - Aihara 85I cor, mult Delavaissier 85 cor Hofmann 87B mult, p	$2\text{jet } X$ (14 - 34) Althoff 85B cs (17 - 34) Collins 85E angp, f (22 - 46.7) Bethke 88 p Abachi 89C col, mult Bethke 88 cs Ford 89 cs Derrick 86C - Derrick 85G mult, p Althoff 85F cor, mult (29 - 37) Ouldsaada 88B ang, angp, p (34.8 - 43.6) Sakai 90 angp, col, p (50 - 60.8) Adachi 89 cs (52 - 57) Unno 88 - (56) -	$\mu^- \mu^+ \gamma$ 50 - 57 Kim 89B angp, mass (1 - 38) Klein 84B angp, col	$\mu^- \mu^+ \gamma$ 50 - 57 Kim 89B angp, mass (1 - 38) Klein 84B angp, col
(34) Aihara 86F p Madaras 86 - Aihara 85I cor, mult Delavaissier 85 cor Hofmann 87B mult, p	$2\text{wino } X$ (46.8) Behrend 87		
$2\Lambda X$ (29) Madaras 86 Delavaissier 85 cor	$\bar{z}^- \bar{z}^+ X$ (46.8) Behrend 87		
$2\bar{\Lambda} X$ (29) Madaras 86 Delavaissier 85 cor	$\gamma \text{ neutral (neutrals)}$ 978.5 - 1079 Druzhinin 88 cs (44) Barlow 87 -		
$2\Lambda X + 2\bar{\Lambda} X$ 38.4 - 42.1 Braunschweig 89I cs (10) Albrecht 90B ang, p	$\gamma \text{ 2neutral}$ (29) Ford 86 p, pt		
$\bar{\Lambda} \Lambda(1520D_{0s}) X$ (10) Albrecht 89B angp, cor, pt	$e^- e^+ \text{ neutral}$ (3.6) Blinov 86B		
$\bar{\Lambda} \Xi^- X$ (10) Albrecht 89B angp, cor, pt	$\text{neutral (neutrals) jet}$ (29) Akerlof 85 p Feldman 85 cs		
$\Omega^- \bar{\Omega}^+ X$ (29) Klein 87B cs	$e^\pm \text{ mult[charged] (neutrals)}$ (29) Sakuda 85 angp, cs (30 - 40) Venkataraman 85B col, cs, pt (38.66 - 46.3) Kuhlen 86B angp, col		
$\gamma \text{ mult[hadron] } X$ (35 - 44) Pitzl 89 mult, p			
$e^\pm \text{ jet } X$ (30 - 40) Venkataraman 85I ¹ cs, pt			
$e^\pm \text{ mult[hadron] } X$ (56) Kim 88D ang, mass			

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow \mu^- \mu^+ \gamma$

$e^+ e^- \rightarrow 2\text{hadron (hadrons)}$

$e^+ e^-$			$e^+ e^-$		$e^+ e^-$			
$\mu^- \mu^+ \gamma$			$\eta(1295) e^- e^+$		$e^- \bar{e}^+ \text{ photino}$			
(14 - 22)	Kiesling 85		(10)	Antreasyan 87	(45)	Gan 88		
(29)	Gold 86		$f_1(1285) e^- e^+$		$e^- \bar{e}^+ \text{ photino} + e^+ \bar{e}^- \text{ photino}$			
(33 - 46.8)	Behrend 86	angp, cs, mass, p	(9 - 29)	Gidal 88C	29	Leclaire 87	cs	
(34.7 - 42.8)	Adeva 88	mass	$\alpha_2(1320)^0 e^- e^+$		$e^+ \bar{\nu}_c \text{ wino}^-$	(29)	Steele 89	cs
(35)	Naroska 87	ang, asym, cs, mass, p	(2 - 40)	Landsberg 86	$\gamma \text{ hadron (hadrons)}$	(10.6)	Augustin 85E	p
(52 - 56)	Kim 88C	angp, cs, p	(7.2 - 10.4)	Blinov 87C		(10.62 - 11.25)	Han 85	-
(57)	Shirai 88	angp, asym, cs, mass	(9 - 29)	Gidal 88C				
		ang, mass	(17)	Althoff 86				
$2\pi^0 \gamma$			$\eta(1440) e^- e^+$		$\gamma q \bar{q}$	(35)	Pitzl 89	p
244.6 - 1918	Dolinsky 89B	mass	(10)	Antreasyan 87	$\gamma 2\text{jet}$	(14 - 46)	Braunschweig 88G	angp
978.5 - 1079	Druzhinin 85	cs	$f_2'(1525) e^- e^+$		(27)	Aihara 86B	ang, p	
978.5 - 1918	Golubev 87	cs, mass	(9 - 29)	Gidal 88C	(30 - 36)	Braunschweig 88G	p	
1079 - 1918	Dolinsky 85	mass, p	$2\rho^0 \gamma$		(30 - 46.7)	Ouldsaada 88	angp, col	
?	Dolinsky 89	mass, p	(3 - 3.2)	Bisello 88	(46.8)	Behrend 86C	mass	
$\pi^+ \pi^- \gamma$			$\pi_2(1670)^0 e^- e^+$		$\gamma 2\text{phitino}$	(29)	Hearty 88	cs
244.6 - 978.5	Dolinsky 89	cs, p	(9 - 29)	Gidal 88C				
1079 - 1918	Aulchenko 86B	mass	$\eta_c(1S) e^- e^+$		(32 - 46.78)	Bartha 86	cs	
$\pi^+ \pi^0 \pi^-$			(7.6 - 10.6)	Blinov 86C	(35 - 46.57)	Bartel 85C	cs	
426.2 - 939.7	Dolinsky 89	cs	(9 - 29)	Gidal 88C	(45)	Behrend 88D	cs	
426.2 - 1918	Bukin 89	cs	(10.52 - 10.86)	Jensen 89		Gan 88	cs	
535.8 - 648.3	Aulchenko 87	cs	$\tau^- \tau^+ \gamma$			Wu 87	-	
565.2 - 626.2	Barkov 87	cs	(29)	Wu 89	$\mu^\pm 2\text{jet}$	(39 - 46.8)	Bartel 87	ang
690.4 - 1018	Barkov 89	cs	(30 - 46.78)	Bartel 86D				
978.5 - 1079	Druzhinin 85	cs						
1058 - 1918	Aulchenko 86C	mass	(33 - 46.8)	Bartel 85L		$\pi^+ \text{ hadron (hadrons)} +$		
1079 - 1918	Aulchenko 86B	mass	(35)	Behrend 86	$\pi^- \text{ hadron (hadrons)}$	(9.98)	Albrecht 89H	mult, p
	Dolinsky 85	cs	(40 - 45)	Naroska 87	$D^*(2010) \text{ hadron (hadrons)}$	(3.87 - 4.5)	Osterheld 86	cs, mult
				Saxon 86	$B 2\text{jet} + \bar{B} 2\text{jet}$	(35)	Braunschweig 89L	-
$\eta e^- e^+$			$e^\pm \text{ heavy-} e \gamma$					
29	Roe 89	cs	?	Dolinsky 89B	$K^+ \text{ hadron (hadrons)} +$			
(2 - 40)	Landsberg 86	cs	$\tau^- \tau^+ 0\gamma$		$K^- \text{ hadron (hadrons)}$	(9.98)	Albrecht 89H	mult, p
(9 - 29)	Gidal 88C	cs	(29)	Perl 86	$K^0 \text{ hadron (hadrons)} +$			
(9.4 - 10.6)	Williams 88	mass, pt	$\gamma 2\psi$		$\bar{K}^0 \text{ hadron (hadrons)}$	(9.98)	Albrecht 89H	mult, p
(17.3)	Bartel 85B	cs	(29)	Ford 86	$q \bar{q} \text{ gluon}$?	Derrick 85G	-
(29)	Roe 89B	cs						
?	Aihara 86	cs	$\text{heavy-lepton}^- \text{ heavy-lepton}^+ \gamma$		$2q \text{ gluon}$	(29)	Petersen 85	angp
$\eta \pi^0 \gamma$?	Riles 89B	$p \text{ hadron (hadrons)} +$			
978.5 - 1079	Druzhinin 85	cs	$\text{heavy-lepton}^- \text{ heavy-lepton}^+ \text{ mult}[\gamma]$		$\bar{p} \text{ hadron (hadrons)}$	(9.98)	Albrecht 89H	mult, p
1079 - 1918	Aulchenko 86C	cs		Riles 89	$\Lambda \text{ hadron (hadrons)}$	(29)	Delavaissier 85	col
?	Dolinsky 89	mass, p	$D_s^+ D_s^- \gamma$		$\bar{\Lambda} \text{ hadron (hadrons)}$	(29)	Delavaissier 85	col
$\omega e^- e^+$			(4.14)	Bai 90	$b \text{ (jets) jet}$	(35 - 46)	Braunschweig 89C	cor
(2 - 40)	Landsberg 86	-		Adler 89E	$\bar{b} \text{ (jets) jet}$	(35 - 46)	Braunschweig 89C	cor
$\eta \pi^+ \pi^-$			$K_L 2\gamma$		$(\text{jets}) 2\text{jet}$	(10 - 52)	Hofmann 87	col, cor, mult, p, pt
1079 - 1918	Aulchenko 86C	cs	?	Dolinsky 89B		(35 - 46)	Braunschweig 89C	col, const, mass, mult, p
	Druzhinin 86	cs	$K_L 2\pi^0$		2hadron (hadrons)	(50 - 60.8)	Kim 89E	col, p
	Dolinsky 85	cs	?	Dolinsky 89B				
	Dolinsky 89B	cs	$K_L \pi^+ \pi^-$		642 - 1891	Dolinsky 89B	cs	
	Antonelli 88	cs	?	Dolinsky 89B	(2.236 - 44.72)	Marshall 89	cs	
	?	ang, cs, mass	$K^+ K_S \pi^- + K_S K^- \pi^+$		(3 - 5)	Schindler 87	cs	
$\eta' e^- e^+$			(6 - 23.39)	Hill 89	(3.87 - 4.5)	Osterheld 86	cs	
29	Roe 89	cs	(29)	Koltick 85B	(5 - 7.4)	Edwards 89	cs	
(2 - 40)	Landsberg 86	cs	$K_S K_L \pi^0$		(7.2 - 10)	Blinov 85B	cs	
(7.2 - 10.4)	Blinov 87C	cs	1603 - 1918	Aulchenko 87B	(7.7 - 47)	Stirling 87	cs	
(9 - 29)	Gidal 88C	cs	$e^- e^+ \text{ unspec}$					
(9.4 - 10.6)	Williams 88	mass, pt	(29)	Hawkins 89B				
(10)	Antreasyan 87	cs	?	Blinov 88B				
(29)	Roe 89B	cs	$\tau^+ \nu_r \text{ jet}$					
?	Aihara 87	cs	(52 - 61.4)	Adachi 90C				
	Kolanoski 85	-						
	Landsberg 85	-	$\tau^- \bar{\nu}_r \text{ jet}$					
$f_0(975) e^- e^+$			(52 - 61.4)	Adachi 90C				
(9 - 29)	Gidal 88C	cs	$e^+ \bar{e}^- \text{ photino}$					
(9.4 - 10.6)	Marsiske 90	cs	(29)	Steele 89				
$\alpha_0(980)^0 e^- e^+$			(32 - 46.78)	Bartel 85C				
(9 - 29)	Gidal 88C	cs						
$f_0(1240) e^- e^+$			$e^- \bar{e}^+ \text{ photino}$					
(2 - 40)	Landsberg 86	cs	(29)	Fernandez 87C				
$f_2(1270) e^- e^+$			(32 - 46.78)	Bartel 85C				
29	Roe 89	cs						
(2 - 40)	Landsberg 86	cs						
(9 - 29)	Gidal 88C	cs						
(9.4 - 10.6)	Marsiske 90	cs						

$e^+ e^- \rightarrow 2\text{hadron (hadrons)}$

$e^+ e^- \rightarrow K^- \pi^+ \pi^0 X$

$e^+ e^-$	2hadron (hadrons)	$e^+ e^-$	2hadron (hadrons)	$e^+ e^-$	$\pi^\pm 2\gamma X$
(9.388 - 9.479)	Jakubowski 88 cs	(52)	Iwasaki 89 ang. const. cor. cs	(29)	Wormser 87 cs, mass
(9.4 - 10.5)	Kaarsberg 89 cs	(52 - 56)	Kumita 89B cs	(29)	Aihara 87 mass
(9.44 - 10.6)	Albrecht 87H cs	(52 - 57)	Maki 89 cs	(4.14)	Adler 89E mass
(9.45 - 10.57)	Gray 87 cs	(52 - 60.8)	Adachi 88C col. cs, cs	(?)	Toki 89B cs, mass
(9.46 - 51.7)	Cassel 85 cs	(53.3 - 59.5)	Yoshida 87 col	(10)	Naroska 85
(9.98)	Wu 87 const. cor. cs	(54 - 61.4)	Tauchi 88 cs	(29 - 37)	Koltic 85B
(10 - 45)	Albrecht 89H mass	(55 - 56)	Li 89B col	(9.4 - 10.6)	Albrecht 87R mass
(10 - 45)	Mattig 89 col. cs, p, pt	(55 - 60.8)	Ogawa 89 col. cs	(10)	Albrecht 85J mass, p
(10.5 - 10.65)	Saxon 86 const. cs	(56)	Adachi 89C col. p	(29)	Avery 89 cor
(10.5 - 11.2)	Wachs 89 cs	(56 - 57)	Abe 90 cs	(29 - 37)	Ruckstuhl 86 cs, mass
(12 - 41.5)	Besson 85 col. cs, mult	(56 - 60.8)	Abe 90C col. p	(3.095 - 29)	Althoff 85F cor, mass
(12 - 43.5)	Marshall 89 col	(56 - 60.8)	Sumiyoshi 88 col. cs	(29)	Juricic 88 ang. p
(12 - 43.5)	Braunschweig 88C col. mult	(56 - 60.8)	Odaka 89 col. cs	(29 - 37)	Avery 89 cor
(12 - 43.5)	Braunschweig 89H col. mass	(56 - 60.8)	Maki 88 col. cs	(29 - 37)	Althoff 85F cor, mass
(12 - 46)	Barlow 87 cs	(56 - 60.8)	Abe 88F col	(3.095 - 29)	Juricic 88 ang. p
(12 - 46.5)	Naroska 87 ang. col. cs, mass	(58.5 - 61.4)	Nozaki 89 const. cs	(29)	Avery 89 cor
(12 - 46.8)	Braunschweig 89K angp. col	(60.8)	Kumita 89 col. cs	(29 - 37)	Althoff 85F cor, mass
(12 - 46.8)	Braunschweig 87 angp. col	(89.2 - 93)	Salvini 88 col. cor. cs	(29 - 37)	Juricic 88 ang. p
(12 - 48.6)	Marshall 85 const. cs	(29)	Fry 89 ang. const. cor. cs	(29 - 37)	Avery 89 cor
(14 - 43)	Barreiro 85B p	(29)	Abrams 89D col	(29 - 37)	Althoff 85F cor, mass
(14 - 43.7)	Braunschweig 90 ang. col. cs, p	(29)	Oulidaaada 88B col	(9.4 - 10.6)	Albrecht 87R mass
(14 - 46.8)	Behrend 89C col	(31ggs)	Komamiya 89 cs	(10)	Albrecht 85J mass, p
(14 - 47)	Behrend 87D cs	(3jet)	Mattig 89 ang. cor. et	(29)	Avery 89 cor
(14 - 47)	Adeva 86C angp. col	(10 - 45)	Braunschweig 89K angp. col	(29)	Ruckstuhl 86 cs, mass
(22 - 38)	Naroska 85 cs	(12 - 46.8)	Naroska 87 cs, p, pt	(29 - 37)	Althoff 85F cor, mass
(22 - 37)	Braunschweig 89E angp. col	(14 - 44)	Bartel 86H cs	(29)	Gan 85B
(27 - 37)	Bartel 85E angp. col	(20 - 42)	Albrow 88 cs	(29)	$\eta e^- e^+ X$
(29)	Komamiya 89B ang. p	(22 - 56)	Bothke 88B cs	(978.5 - 1079)	Goubeev 85 cs, mass
	Wood 88 ang. p	(27)	Aihara 86B ang. p	(29)	Wormser 88B cs, mass
	Fernandez 85 cor. p	(29)	Bothke 89B p	(29)	$\phi \pi^+ \gamma X$
	Fernandez 85B cs		Rouse 87	(9.4 - 10.6)	Albrecht 87N mass
	Rosenberg 85B col. const. p, pt		Madaras 86	(9.4 - 10.6)	Albrecht 85B mass
	Rowson 85 cs		Petersen 86C col. p		$0\gamma \text{ charged}^+ \text{ charged}^- X$
(34)	Bender 84C col. cor. p		Sugano 86 cs		Perl 86 ang. cs, p, pt
(35)	Bartel 85H col. cor. p		Rosenberg 85B col. const. p, pt		$e^- e^+ \text{ mult}[\eta] X$
	Braunschweig 89L ang. col. mass		Yamamoto 85E cs, p, pt		$\omega^- \pi^+ e^+ X$
(39.79 - 46.72)	Althoff 85 cs		Aihara 84G ang		(29)
(39.79 - 46.78)	Adeva 86 col. cs		Bender 84C cs		Wagner 89B mass
(40 - 46.78)	Bartel 85M col. cs		Oulidaaada 88 angp. col		Wagner 89B mass
(40 - 47)	Haissinski 85 angp. col		Althoff 85C ang. p		Albrecht 86B mass
(44)	Behrend 85 cs		Marshall 89 angp		$K^+ \pi^- \gamma X$
(44.2)	Komamiya 85 angp. col		Bartel 85H ang. p		(29)
(50 - 52)	Genser 89 cs		Barlow 87 cs		Low 87 mass
	Behrend 88C angp. p		Behrend 86C mass		Bartel 85G mass
	Sagawa 88 col. cs		Maki 88B cs		Low 87 mass
	Abe 87C col		Park 88 cs		Bartel 85G mass
	Amako 87 col. cs		Park 89 const. cs		$K^- \pi^+ \gamma X$
	Miyamoto 87 col. cs		Park 89B col. cs		(29)
	Sakai 87 col. cs		Kamae 88 col. cs		Low 87 mass
	Yoshida 87B col. cs		Meneil 88 col. const. cor		Bartel 85G mass
(50 - 55)	Albrow 88 col. cs		(50 - 60.8)		$K^- \pi^+ \text{ charged } X$
(50 - 56)	Masuda 88 col. cs		(50 - 61.4)		(10)
	Sugahara 88 angp. col		Bodek 89 (29)		Albrecht 86F
	Ko 88 col. cs		Kim 89C (29)		$K^+ \pi^0 \pi^- X$
	Maki 88B col. cs		Iwasaki 89 ang. const. cor. cs		(29)
	Mori 88 cs		Maki 89 ang. const. cor. cs		Abachi 87C mass
	Park 88 ang. col. p		Olsen 88 col. const		Low 87 mass
	Rosenfeld 88 ang. col. p		Salvini 88 col. const		Bartel 85G mass
	Shirai 88 col. cs		(60.8)		Althoff 86C mass
	Son 88 col. cs		Fry 89 angp. cs, p, pt		Low 87 mass
(50 - 57)	Eno 89 col. const. cs		(89.2 - 93)		Bartel 85G mass
	Metcalf 89 col. cs, p		Abrams 89D ang. const. cor. cs		Low 87 mass
	Mori 89 cs		Fernandez 87C (29)		Bartel 85G mass
	Mori 89B col. cs				$K^- \pi^+ \text{ charged } X$
	Kamae 88 col. cs				(10)
	Kichimi 88 col				Albrecht 86F
	Meneil 88 const. cs				$K^+ \pi^0 \pi^- X$
	Unno 88 cs				(29)
	Yamauchi 88 col. cs, p, pt				Abachi 87C mass
(50 - 60.4)	Zheng 90 cs, mult				Low 87 mass
(50 - 60.8)	Eno 89B col				Bartel 85G mass
	Kim 89F col. cs, p				Althoff 86C mass
(50 - 61.4)	Adachi 90B cs				$K^- \pi^+ \pi^0 X$
					(29)
					Abachi 87C mass
					Low 87 mass

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary). Beam momenta are P_{lab} in GeV/c, or in parentheses F_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow K^- \pi^+ \pi^0 X$ $e^+ e^- \rightarrow e^- e^+ 2\gamma$

$e^+ e^-$		$e^+ e^-$		$e^+ e^-$	
$K^- \pi^+ \pi^0 X$		$K^+ K^- \pi^- X$		$e^- e^+$ neutral (neutrals)	
(42.2)	Bartel 85G		Toki 86	(52 - 57)	Adachi 89
	Althoff 86C	mass	cs. cs. mass.	(52 - 60.8)	Adachi 89B
	mass	mass	mass		angp
$K^+ \pi^0 \pi^- X + K^- \pi^+ \pi^0 X$		(9.4 - 10.6)	Albrecht 88J	$\mu^- \mu^+$ neutral (neutrals)	
(29)	Gladney 85	(10.5)	Chen 89B	(52 - 57)	Adachi 89
$K^+ 2\pi^- X$		(10.52 - 10.58)	Bortoletto 88	(52 - 60.8)	Adachi 89B
(4.14)	Adler 88C	(29)	Derrick 85C		angp
(9.4 - 10.6)	Albrecht 88J		Yamamoto 85C	$\alpha_1(1260)^- \tau^+$ neutral (neutrals)	
(10.2 - 10.5)	Albrecht 89N	mass	mass	(29)	Ford 87
(10.3 - 10.5)	Bowcock 88	mass	mass		mass
(10.38 - 10.58)	Csorna 85	mass	mass	$\alpha_1(1260)^+ \tau^-$ neutral (neutrals)	
(10.58)	Csorna 87B	mass	mass	(29)	Ford 87
(28 - 46.8)	Braunschweig 89G	mass	mass		mass
(29)	Averill 89	mass	mass	$\tau^- \tau^+$ neutral (neutrals)	
	Baringer 88	mass	mass	(52 - 57)	Adachi 89
	Wagner 87	mass	mass	(52 - 60.8)	Adachi 89B
	Aihara 86E	mass	mass		angp
	Derrick 85B	mass	mass	neutral (neutrals) 2jet	
	Yamamoto 85B	ang. mass	mass	(52 - 60.8)	Adachi 89B
	Yamamoto 85C	mass	mass	neutral 3jet	
		mass	mass	(50 - 60.8)	Low 89
$K^+ \pi^+ \pi^- X$					et
(29)	Abachi 88			2hadron (hadrons) neutral	
	Abachi 86B			(50 - 60.8)	Low 89
					col
$K^- \pi^+ \pi^\pm X$		$K^+ K_S K^- X$		e^- charged (charged) (neutrals)	
(29)	Naroska 85		Albrecht 87E	(29)	Aihara 85F
		mass	ang. mass		col. p
$K^- 2\pi^+ X$		(34.8 - 42.1)	Albrecht 85G	$e^- e^+$ charged+ charged-	
(4.14)	Adler 88C		mass	(3.45)	Ajaltoni 87
(9.4 - 10.6)	Albrecht 88J		mass		-
(10.3 - 10.5)	Bowcock 88		mass	$2\mu^\pm$ mult[charged] (neutrals)	
(10.38 - 10.58)	Csorna 85		mass	(44.2)	Aleksan 86
(10.58)	Csorna 87B		mass		-
(28 - 46.8)	Braunschweig 89G		mass	τ^+ charged neutral (neutrals)	
(29)	Abachi 89C		mass	(29)	Ford 87
	Averill 89		mass	τ^- charged neutral (neutrals)	
	Abachi 88C		mass	(29)	Ford 87
	Baringer 88		mass		cs
	Wagner 87		mass	0γ 2charged (neutrals)	
	Abachi 86B		mass	(29)	Perl 85
	Aihara 86E		mass		-
	Gladney 86B		mass	mult[γ] charged+ charged- (neutrals)	
	Derrick 85B		mass	(29)	Riles 89
	Yamamoto 85B		mass		angp. p
	Yamamoto 85C		ang. mass		Riles 88
			mass		angp. p
$K^- \pi^+ \pi^- X$		$p 2\pi^- X$		charged 3jet	
(29)	Abachi 88		mass	(22 - 38)	Braunschweig 89E
	Abachi 86B		mass		p
			mass	$\mu^+ \mu^- 2\gamma$	
$K^+ 2\pi^- X + K^- 2\pi^+ X$		(34.8 - 42.1)	Alam 89B	(29)	Hearty 88
(29)	Gladney 85		mass		cs
	Goldhaber 85C		mass	244.6 - 550.4	Dolinsky 89B
$D^0 K^- \pi^+ X$		(10.5 - 10.7)	Alam 89B		cs. mass. p
(29)	Abachi 87C		mass	244.6 - 1918	Aulchenko 86
			mass		angp. cs. mass
$D^0 K^+ \pi^- X$		$e^- e^+$ charm X			Vasserman 86B
(29)	Abachi 87C		angp. cs. mass. p		angp. cs. mass. p
			mass	1058 - 1918	Aulchenko 86C
$K^+ K^- \pi^\pm X$		(17 - 17.5)	Braunschweig 90B	1079 - 1918	Aulchenko 86B
(29)	Koltick 85B		angp. cs. mass. p		mass
			mass		Dolinsky 85
$K^+ K^- \pi^+ X$		$e^- e^+$ charged-hadron X			cs
(10)	Albrecht 85M		p. pt		Hawkins 89
(4.14)	Bai 90		pt	(29)	Fernandez 87B
	Alder 89		pt		angp. cs. mass
	Blaylock 87		ang	(34)	Naroska 87
	Wasserbaech 87		ang	(35)	Kamae 88
			ang		ang. cs. p
	Toki 86		angp. col. p	(35 - 46.8)	Naroska 87
	cs. cs. mass.		angp. col. p		cs
(9.4 - 10.6)	Albrecht 88J	$\mu^\pm 2hadron X$		$e^- e^+ 2\gamma$	
	Albrecht 87R	(36 - 46)	Barlow 87	50 - 57	Kim 89B
	Albrecht 86F	(jets) 2jet X	angp. col. p	244.6 - 1918	Dolinsky 89B
(10.5)	Chen 89B	?	Ouldsnada 88B		angp. mass
(10.52 - 10.58)	Haas 86		cs		Aulchenko 86
(29)	Bortoletto 88		cs		angp. cs. mass
	Derrick 85C		col	565.2 - 626.2	Dolinsky 88
	Yamamoto 85C		ang		ang. cs. mass
(35 - 44)	Braunschweig 87B		ang	1079 - 1918	Dolinsky 85
			angp. p	(2 - 40)	Landsberg 86
$K^+ K^- \pi^- X$			angp. p	(9 - 29)	Gidal 88C
(4.14)	Alder 89		angp. p	(9.4 - 10.6)	Williams 88
	Blaylock 87		angp. p	(10)	Bielen 88
	Wasserbaech 87		cs	(10.2)	Lurz 87
			cs		mass
			cs		Skwarnicki 87
			cs	(29)	Hawkins 89

$e^+ e^- \rightarrow e^- e^+ 2\gamma$

$e^+ e^- \rightarrow e^- e^+ 2\text{photon}$

$e^+ e^-$			$e^+ e^-$			$e^+ e^-$		
$e^- e^+ 2\gamma$	Roe 89	mass	$\mu^- \mu^+ e^- e^+$	Berger 85B		$2\rho^0 e^- e^+$		
	Roe 89B	mass		ang. angp. cs. mass		?		Kolanoski 85
	Karlen 88B	cs. mass	(35 - 46.8)	Behrend 88G		$\omega \rho^0 e^- e^+$		
	Karlen 88C	asym. cs. mass	(36)	ang. angp. mass. p		?		Kolanoski 85
	Aihara 86	angp. mass		Naroska 87		$2\omega e^- e^+$		
(33 - 46.8)	Behrend 86	mass		angp. mass. p		?		Kolanoski 85
(34)	Naroska 87	angp. p	(36.5)	Bartel 86C	ang. mass. p	$\phi \rho^0 e^- e^+$		
(34.7)	Berger 85H	p. pt	(39.5)	Adeva 88		(14 - 36)		Althoff 86D angp. mass
(35)	Naroska 87	cs	(44)	Barlow 87	ang. cs. mass. pt	$2\phi e^- e^+$		
(36.5)	Bartel 86C	ang. mass. p	(50 - 52)	Miyamoto 87	mass. p	(14 - 36)		Althoff 86D angp. mass
(52 - 56)	Kim 88C	cs	(50 - 56)	Shirai 88	cs			
(55 - 56)	Sumiyoshi 88	mass	(50 - 60.8)	Kurihara 89		$\tau^- \tau^+ \nu_\tau \bar{\nu}_\tau$		
(55 - 60.8)	Adachi 90	-	(50 - 61.4)	Ho 89	ang. angp. mass	(42.5 - 46.8)		Behrend 87C
(56)	Abe 88E	mass	?	Berger 87B	pt	(52 - 61.4)		Adachi 90C
	Maki 88	cs		Berger 85C		$\tau^- \tau^+ 2\gamma$		
(57)	Shirai 88	ang. mass				(30 - 46.78)		Bartel 86D
?	Yamauchi 88	mass	$\mu^- \mu^+ e^- e^+ + \mu^- \mu^+ e^- e^+ \gamma$	Behrend 88F	cs	(33 - 46.8)		Behrend 86
	Dolinsky 89	-	$2\pi^0 e^- e^+$	Gidal 88C	mass, pwa	(35)		Naroska 87
	Ouldsaadat 88B	-	(9 - 29)	Marsiske 90	angp. cs	(57)		Yamauchi 88
	Uano 88	-	(9.4 - 10.6)	Albrecht 87Q	angp. mass	$K^+ K^- e^- e^+$		
	Kolanoski 85	-	(9.98 - 10.02)			(9.4 - 10.6)		Albrecht 89K
$2e^- 2e^+$	Ajaltouni 85B	mass	$\pi^+ \pi^- 2\gamma$	Vasserman 88	cs	(29)		Aihara 86D
0.69 - 0.94	Dolinsky 89B	cs. mass, p	426.2 - 883.1	Dolinsky 89	cs	$K^+ K^- e^- e^+ + \pi^+ \pi^- e^- e^+$		Johnson 86
244.6 - 1918	Aulchenko 86	angp. cs. mass	426.2 - 939.7	Dolinsky 89B	cs. mass	(29)		Boyer 86
	Barkov 88	cs. mass	426.2 - 1918	Aulchenko 86C	mass			Gidal 85
1016 - 1926	Dolinsky 85	cs	1058 - 1918	Antonelli 88	mass	$K^0 \bar{K}^0 e^- e^+$		
1079 - 1918	Courau 86	cs. mass	(1.35 - 2.4)			?		Kolanoski 85
(1.4 - 2)	Blinov 88B	cs		$\pi^+ \pi^- e^- e^+$				
(3.6)	Blinov 86B	mass	0.69 - 0.94	Ajaltouni 85B	mass	$K^+ K^- \pi^+ \pi^-$		
	Blinov 85C	angp. cs. mass, pt	(1.4 - 2)	Courau 86	cs. mass	(9.4 - 10.6)		Albrecht 87S
(14 - 46.8)	Kiesling 85	cs	(9 - 29)	Gidal 88C	mass, pwa	$K^*(892)^0 \bar{K}^*(892)^0 e^- e^+$		
(29)	Hawkins 89	cs	(9.98 - 10.02)	Albrecht 87Q	angp. mass	(14 - 36)		Althoff 86D
	Hawkins 89B	mass	(29)	Aihara 86D	angp. p	$K_L 3\pi^0$		
	Petradza 89	angp. cs. mass, p	(55 - 60.8)	Johnson 86	-	1.28 - 1.4		Dolinsky 89B
	Perl 86	ang. cs. p, pt	?	Adachi 90	mass	1603 - 1918		Aulchenko 87B
(35)	Naroska 87	cs	$3\pi^0 \gamma$	Berger 85C	-	$2K_S e^- e^+$		
(35 - 46.8)	Behrend 88G	ang. angp. mass. p	244.6 - 1079	Kolanoski 85	-	(9 - 29)		Gidal 88C
(36)	Naroska 87	angp. mass. p	1079 - 1918	Dolinsky 89	mass, p	(17.5)		Behrend 88E
(36.5)	Bartel 86C	ang. mass. p	$2\mu^- 2\mu^+$	Petradza 89		(34.5)		Althoff 85D
(44)	Barlow 87	-	(29)	angp. cs. mass. p		$p \bar{p} e^- e^+$		Berger 88
(50 - 60.8)	Kurihara 89	-	(35 - 46.8)	Behrend 88G	ang. angp. mass. p	(4.7 - 5.3)		Albrecht 88R
	Ho 89	angp. mass. p	(52 - 56)	Kim 88C	cs. mass	(29)		Aihara 87E
(50 - 61.4)	Kim 88C	cs. mass	(9.98 - 10.02)	Albrecht 87Q	angp. mass	(34.8 - 43.9)		Johnson 86
(52 - 56)	Berger 85C	-	$\pi^+ \pi^- \mu^- \mu^+$					Bartel 86B
?			$\pi^+ 2\pi^0 \pi^-$	Kurdadze 86	cs	$p \bar{p} \pi^+ \pi^-$		Bartel 86E
$\mu^- e^- 2e^+$	Naroska 87	cs. qnc	400.8 - 1918	Aulchenko 87C	cs. mass	(3 - 3.2)		Tixier 88
(35)			706.9 - 988.3	Dolinsky 89B	cs. mass	$\rho^0 e^- e^+ (\text{hadrons})$		
$\mu^- \mu^+ 2\gamma$	Kim 89B	angp. mass	706.9 - 1904	Aulchenko 86C	mass	(10.3 - 10.6)		Haas 88
50 - 57	Lurz 87	mass	1058 - 1918			$\rho^0 \mu^- \mu^+ (\text{hadrons})$		
(10.2)	Skwarnicki 87	ang. p		Kurdadze 88	cs. mass	(10.3 - 10.6)		Haas 88
(33 - 46.8)	Behrend 86	mass	400.8 - 1918	Dolinsky 89B	cs. mass	(46.8)		Behrend 86C
(35)	Naroska 87	cs. p	988.3 - 1904	Barkov 88	cs. mass	$2\gamma 2\text{jet}$		
(52 - 56)	Kim 88C	cs	1016 - 1926	Aulchenko 86C	mass	(50 - 55)		Sugahara 88
(56)	Maki 88	cs	1058 - 1918			(50 - 56)		Rosenfeld 88
(57)	Shirai 88	ang. mass	$\eta \pi^0 e^- e^+$	Gidal 88C	mass, pwa	(50 - 56)		Sugahara 88
	Yamauchi 88	mass	(9 - 29)	Kolanoski 85		(50 - 56)		Rosenfeld 88
$\mu^- \mu^+ 2\gamma + e^- e^+ 2\gamma$	Irion 85	-	$\rho^0 e^- e^+ \gamma$	Blinov 87C	mass	(7.2 - 10.4)		
(10.02)			(7.2 - 10.4)			$\eta \pi^+ \pi^- \gamma$		
$\mu^- \mu^+ e^- e^+$	Ajaltouni 85B	mass	$\eta \pi^+ \pi^- \gamma$	Dolinsky 89		?		
0.69 - 0.94	Courau 86	cs. mass	$\rho^+ \pi^- e^- e^+$	Blinov 87C	mass	(7.2 - 10.4)		
(1.4 - 2)	Blinov 85E	angp. cs. mass	(7.2 - 10.4)			$\rho^- \pi^+ e^- e^+$		
(9.46)			(7.2 - 10.4)	Blinov 87C	mass	(7.2 - 10.4)		
(14 - 46.8)	Kiesling 85	-	$2\rho^0 e^- e^+$	Kolanoski 85		(29)		
(29)	Hawkins 89	mass						
	Petradza 89	angp. cs. mass, p						
	Perl 86	ang. cs. p, pt						
	Gidal 85	-						
(35)	Naroska 87	cs						

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow \mu^+ \nu_\mu$ hadron (hadrons) $e^+ e^- \rightarrow e^- e^+$ 2neutral (neutrals)

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$\mu^+ \nu_\mu$ hadron (hadrons) (50 - 55) Sugahara 88 angp. col (50 - 56) Rosenfeld 88 col	4jet (50 - 61.4) Iwasaki 89 ang. const. cor. cs	$K^+ \pi^+ 2\pi^- X$ (9.4 - 10.6) Albrecht 88J mass Albrecht 85 mass Abachi 87C mass Althoff 86C mass
$\mu^- \nu_\mu$ hadron (hadrons) (50 - 55) Sugahara 88 angp. col (50 - 56) Rosenfeld 88 col	(52 - 61.4) Maki 89 ang. const. cor (60.8) Adachi 90C mass Fry 89	(29) $K^- 2\pi^+ \pi^- X$ (42.2) Althoff 86C mass
$\mu^- e^+$ hadron (hadrons) + $\mu^+ e^-$ hadron (hadrons) (10.3 - 10.6) Haas 88	(89.2 - ...) Abrams 89D ang. const. cor. cs	(9.4 - 10.6) Albrecht 89 mass Albrecht 88J mass Albrecht 85 mass Albrecht 89V mass Abachi 87C mass Althoff 86C mass
$\mu^- \mu^+$ hadron (hadrons) (10.3 - 10.6) Haas 88 (30 - 35) Ferrarotto 88 mass	4charged X (29) Petradza 90 angp. mass, p	$K^+ \pi^+ 2\pi^- X + K^- 2\pi^+ \pi^- X$ (10) Albrecht 86B mass (29) Albrecht 85 mass (42.2) Althoff 86C mass
$\mu^- \mu^+$ 2jet (39 - 46.8) Bartel 87 ang (52 - 57) Sagawa 89 col	2charged 2neutral (neutrals) (29) Aihara 86I angp. mass, p	$K^+ \pi^+ 2\pi^- X + K^- 2\pi^+ \pi^- X$ (10) Albrecht 86B mass (29) Gladney 85 mass Rosner 85E -
$\tau^+ \nu_\tau$ 2jet (42.5 - 46.8) Behrend 87C cs	4charged (neutrals) (29) Armidei 88 Ruckstuhl 86	$K^+ K^- \pi^+ \gamma X$ (9.4 - 10.6) Albrecht 87N mass (29) Bartel 85G mass
γ 2hadron (hadrons) (9.4 - 10.5) Albrecht 87H p (29) Gold 86 angp. cs, p (55 - 60.8) Abe 89J ang. p	$e^- e^+ 2\gamma X$ (29) Gidal 85	$K^+ K^- \pi^- \gamma X$ (9.4 - 10.6) Albrecht 87N mass (29) Bartel 85G mass
ν 2hadron (hadrons) (43) Behrend 86B	$\mu^- \mu^+ 2\gamma X$ (29) Wu 86	$K^+ K^- \pi^+ \pi^0 X$ (4.14) Bai 90 cs, mass Alder 89 cs, mass
e^\pm 2hadron (hadrons) (29) Pal 86 p, pt (29 - 34.6) Saxon 86 col (46) Bartel 87 ang. angp. col (50 - 52) Igarashi 87 col (50 - 56) Eno 88 ang. col, mass Myung 88 ang. col, cs Son 88 col, cs (50 - 57) Yamauchi 88 angp. col (50 - 61.4) Myung 89 col, cs	$\mu^- \mu^+ e^- e^+ X$ (29) Petradza 90 angp. cs, p	$K^+ K^- \pi^0 \pi^- X$ (4.14) Bai 90 cs, mass Alder 89 cs, mass
e^+ 2hadron (hadrons) (29) Ong 89 pt Klem 86 p, pt	$\pi^+ \pi^- 2\gamma X$ (10) Albrecht 88S mass (29) Wormser 88B inass	$2K^+ 2\pi^- X$ (29) Yamamoto 85C mass
e^- 2hadron (hadrons) (29) Ong 89 pt Klem 86 p, pt	$2\pi^+ \pi^-$ charged $^+$ X (10) Albrecht 86E	$2K^- 2\pi^+ X$ (29) Yamamoto 85C mass
μ^\pm 2hadron (hadrons) (34.6) Bartel 86G col. pt Saxon 86 cs, p, pt (39.79 - 46.78) Adeva 86 col, cs (43) Behrend 86B - (46) Bartel 87 ang. angp. col (50 - 52) Igarashi 87 col (50 - 56) Eno 88 ang. col, mass Maki 88B col. pt Myung 88 ang. col, cs Shirai 88 col, cs Son 88 col, cs (50 - 57) Yamauchi 88 angp. col (50 - 61.4) Myung 89 col, cs	$\pi^0 3\pi^\pm X$ (29) Koltick 85B	$K^0 K^- \pi^+ \pi^- X$ (10) Albrecht 89P mass
μ^+ 2hadron (hadrons) (14 - 46.8) Adeva 86B ang (29) Ong 89 pt (39.79 - 46.78) Bartel 85M cs	$\pi^+ \pi^0 \pi^- \pi^\pm X$ (4.14) Adler 89E mass	$K^+ K^- \text{mult}[\pi^+] \text{mult}[\pi^-] X$ (9.4 - 10.6) Albrecht 85D ang, mass
μ^- 2hadron (hadrons) (14 - 46.8) Adeva 86B ang (29) Ong 89 pt	$2\pi^+ \pi^0 \pi^- X$ (4.14) Stockdale 87 cs, mass	$p \pi^+ 2\pi^- X$ (10.5) Avery 88 mass
π^\pm 2hadron (hadrons) (29) Aihara 89B col. p	$\eta \pi^+ \pi^- \pi^\pm X$ (4.14) Adler 89E mass (29) Wormser 87 cs, mass	$\bar{p} 2\pi^+ \pi^- X$ (10.5) Avery 88 mass
t 2hadron (hadrons) ? Unno 88	$\eta 2\pi^+ \pi^- X$ (10) Albrecht 90 cs, mass	$\Lambda 2\pi^+ \pi^- X$ (9.46 - 10.6) Albrecht 88D mass (10.5 - 10.85) Bowcock 85 mass
4jet (14 - 44) Bartel 86H p (29) Bethke 89B p (34) Naroska 87 cs (42.5 - 46.8) Behrend 87C cs (46.8) Behrend 86C mass (50 - 56) Maki 88B cs (50 - 57) Park 89 ang. col. cor Park 89B cs	$\phi 2\pi^+ \pi^- X$ (9.4 - 10.6) Albrecht 85D ang. mass	$\Lambda 3\pi^+ X$ (10.5 - 10.7) Alam 89B mass
	$\phi \pi^+ 2\pi^- X$ (9.4 - 10.6) Albrecht 85D ang. mass	$\Lambda \pi^+ 2\pi^- X$ (10.5 - 10.85) Bowcock 85 mass
	$K^+ 2\pi^- \gamma X$ (10.52 - 10.58) Bortoletto 88 mass	$\bar{\Lambda} 2\pi^+ \pi^- X$ (10.5 - 10.85) Bowcock 85 mass
	$K^- 2\pi^+ \gamma X$ (10.52 - 10.58) Bortoletto 88 mass	$\bar{\Lambda} 3\pi^- X$ (10.5 - 10.7) Alam 89B mass
	$K^+ \pi^0 2\pi^- X$ (10.52 - 10.58) Bortoletto 88 mass (28 - 46.8) Braunschweig 89G mass (29) Wagner 87 mass Aihara 86E mass Yamamoto 85C mass	$\bar{\Lambda} \pi^+ 2\pi^- X$ (9.46 - 10.6) Albrecht 88D mass (10.5 - 10.85) Bowcock 85 mass
	$K^- \pi^+ \pi^0 \pi^\pm X$ (29) Naroska 85	$\Lambda \pi^+ 2\pi^- X + \bar{\Lambda} \pi^+ 2\pi^- X$ (9.46) Mestayer 85 -
	$K^- 2\pi^+ \pi^0 X$ (10.52 - 10.58) Bortoletto 88 mass (28 - 46.8) Braunschweig 89G inass (29) Abachi 89C mass Wagner 87 mass Aihara 86E mass Gladney 86B mass Yamamoto 85C mass	$\Lambda \pi^+ 2\pi^- X + \bar{\Lambda} 2\pi^+ \pi^- X$ (9.46) Mestayer 85 -
	$K^+ \pi^0 2\pi^- X + K^- 2\pi^+ \pi^0 X$ (29) Gladney 85 Goldhaber 85C	$2t$ 2hadron X (50 - 57) Kichimi 88 col
		4jet X (22 - 46.7) Bethke 88 p (29) Bethke 89 cs Ford 89 col Ouldsaada 88B -
		$e^- e^+ \gamma$ neutral (neutrals) (29) Riles 89B cs, p
		$e^- e^+$ 2neutral (neutrals) (50 - 60.8) Sakai 90 angp. col, mass

$e^+ e^- \rightarrow \mu^\pm e^\pm \gamma$ neutral (neutrals) $e^+ e^- \rightarrow \pi^0 \pi^\pm e^\pm \gamma$ neutral (neutrals)

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$\mu^\pm e^\pm \gamma$ neutral (neutrals) (29) Riles 89B	$\eta \pi^+ \pi^- e^- e^+$ (29) Gidal 88B ang	$\mu^- \mu^+ 2$ hadron (hadrons) (10.52) Fulton 89 mass
$\pi^\pm e^\pm \gamma$ neutral (neutrals) (29) Riles 89B	$\phi \pi^+ \pi^- e^- e^+$ (14-36) Althoff 86D angp, mass	$\ell^+ \ell^- 2$ hadron (hadrons) (35-43) Behrend 89J - (35-44) Elsen 90 p
$\mu^- \mu^+ 2$ neutral (neutrals) (50-60.8) Sakai 90 angp, col, mass	$K^*(892)^0 K^- \pi^+ e^- e^+$ (14-36) Althoff 86D angp, mass	$D^0 \pi^+ 2$ hadron (hadrons) (29) Kesten 85 mass, pt
$\pi^\pm \mu^\pm \gamma$ neutral (neutrals) (29) Riles 89B	$\bar{K}^*(892)^0 K^+ \pi^- e^- e^+$ (14-36) Althoff 86D angp, mass	$\bar{D}^0 \pi^- 2$ hadron (hadrons) (29) Kesten 85 mass, pt
$2\pi^0 \gamma$ (γ 's) (neutrals) 1603-1918 Aulchenko 87B mass	$K^+ K_S \pi^- e^- e^+$ (17.5) Althoff 85D mass (29) Aihara 88B mass Gidal 88 ang, mass Aihara 86C mass (34.68) Berger 86 -	$K^+ \pi^- 2$ hadron (hadrons) (29) Kesten 85 mass, pt
$\rho^- \pi^0 \tau^+$ neutral (neutrals) (29) Ford 87 mass	$K_S K^- \pi^+ e^- e^+$ (17.5) Althoff 85D mass (29) Aihara 88B mass Gidal 88 ang, mass Aihara 86C mass (34.68) Berger 86 -	$K^- \pi^+ 2$ hadron (hadrons) (29) Kesten 85 mass, pt
$\rho^+ \pi^0 \tau^-$ neutral (neutrals) (29) Ford 87 mass	$K^+ K_S \pi^- e^- e^+$ (17.5) Althoff 85D mass (29) Aihara 88B mass Gidal 88 ang, mass Aihara 86C mass (34.68) Berger 86 -	(jets) 4jet (44) Barlow 87 cs
$\rho^0 \pi^+ \tau^-$ neutral (neutrals) (29) Ford 87 mass	$K^+ K_S \pi^- e^- e^+$ (17.5) Althoff 85D mass (29) Aihara 88B mass Gidal 88 ang, mass Aihara 86C mass (34-35) Braunschweig 89 cs, mass, pt	5jet (34) Naroska 87 cs (50-56) Maki 88B cs (89.2-93) Abrams 89D cs
$e^- 2$ charged-hadron (charged-hadrons) (neutrals) (36.5) Bartej 87B -	$\pi^+ K_S \pi^- e^- e^+$ (29) Gidal 85 pwa (34-35) Braunschweig 89 cs, mass, pt	5charged X (29) Naroska 85 cs Petersen 85 col
2γ (γ 's) charged ⁺ charged ⁻ (29) Aihara 86G mass	$p \bar{p} \pi^0 e^- e^+$ (4.7-5.3) Albrecht 88R -	2charged ⁺ 2charged ⁻ neutral (neutrals) (9.4-10.6) Albrecht 87C ang, mass
$e^+ 3$ charged (charged) (29) Akerlof 88 mass	$\pi^+ e^- e^+$ hadron (hadrons) (10.3-10.6) Haas 88 -	4charged neutral (neutrals) (9.3-10.6) Albrecht 87L mass
$e^- 3$ charged (charged) (29) Akerlof 88 mass	$\pi^+ \mu^- e^+$ hadron (hadrons) + (10.3-10.6) Haas 88 -	4charged (charged) (neutrals) (9.4-10.6) Albrecht 85B - Albrecht 85D - Berger 85G ang, cor
$3e^\pm$ charged (neutrals) (44.2) Aleksan 86 -	$\pi^+ \mu^- e^+$ hadron (hadrons) (10.3-10.6) Haas 88 -	$\pi^+ \pi^- \pi^\pm 2\gamma$ X (4.14) Adler 89E mass (29) Wormser 87 cs, mass
$e^\pm (\nu's) 2\gamma$ charged (10.2) Keh 88B ang, mass, p	$\pi^+ \mu^- \mu^+$ hadron (hadrons) (10.3-10.6) Haas 88 -	$2\pi^+ \pi^0 2\pi^-$ X (10) Albrecht 88S mass
4γ (γ 's) 244.6-978.5 Dolinsky 88B cs, mass, p 244.6-1918 Dolinsky 89B mass	$e^\pm \gamma 2$ hadron (hadrons) (10.6) Augustin 85E -	$5\pi^\pm$ X (29) Koltick 85B -
5γ 978.5-1079 Druzhinin 85 cs 1058-1918 Aulchenko 86C mass 1079-1918 Dolinsky 85 mass, p (29) Hawkins 89 cs ? Dolinsky 89 mass, p	$2e^\pm 2$ hadron (hadrons) (35) Kamae 88 ang, cs, p	$K^+ \pi^+ 3\pi^-$ X (10.3-10.5) Bowcock 88 mass (28-46.8) Braunschweig 89G mass (29) Aihara 86E mass
$e^- e^+ 2\gamma$ (γ 's) ? Lowe 86B -	$e^- e^+$ (jets) 2jet (14-35) Roberts 86 - (34.5) Berger 87 -	$K^- 2\pi^+ \pi^- \pi^\pm$ X (29) Naroska 85 -
$e^- e^+ 3\gamma$ (2-40) Landsberg 86 mass (29) Hawkins 89 cs	$e^- e^+ 2$ charged-hadron (hadrons) (33-35) Althoff 86B pt	$K^- 3\pi^+ \pi^-$ X (10.3-10.5) Bowcock 88 mass (28-46.8) Braunschweig 89G mass (29) Aihara 86E mass
$2e^- 2e^+ \gamma$ (29) Hawkins 89 cs	$e^- e^+ 2$ hadron (hadrons) (7.6-10.6) Baru 86 cs Blinov 86C mass (9.4-10.6) Albrecht 88L - (10.3-10.6) GrpB 87 - (10.52) Fulton 89 mass (14-35) Roberts 86 angp (29) Aihara 89C p Aihara 87F mass Aihara 86H mass Johnson 86 mass Bintinger 85 angp, mass Kolanoski 85 angp, mass Berger 87C p, pt Berger 85H p, pt Kolanoski 85 p, pt	$K^+ \pi^+ 3\pi^-$ X + $K^- 3\pi^+ \pi^-$ X (29) Gladney 85 -
$\pi^+ \pi^- 3\gamma$? Dolinsky 89 -	$\mu^\pm e^\pm 2$ hadron (hadrons) (35) Kamae 88 ang, cs, p	$K^+ K^- \pi^+ e^- e^+$ X (29) Weir 89 mass
$\pi^+ \pi^- e^- e^+ \gamma$ (7.2-10.4) Blinov 87C mass (10) Albrecht 87M ang (29) Gidal 85 -	$\mu^\pm e^\pm 2$ hadron (hadrons) (10.3-10.6) Grab 87 -	$K^0 K^- \pi^+ \pi^0 \pi^-$ X (10) Albrecht 89P mass
$\pi^+ \pi^0 \pi^- e^- e^+$ (7.2-10.4) Blinov 87C mass (9-29) Gidal 88C mass, pwa	$2\mu^\pm 2$ hadron (hadrons) (35) Kamae 88 ang, cs, p	$K^+ K^- 2\pi^+ \pi^-$ X (4.14) Bai 90 cs, mass Alder 89 cs, mass
$2\pi^+ 2\pi^- \gamma$ (1.35-2.4) Antonelli 88 mass (3-3.2) Bisello 88 cs, mass	$\mu^- \mu^+ 2$ hadron (hadrons) + (10.3-10.6) Grab 87 -	$K^+ K^- \pi^+ 2\pi^-$ X (4.14) Bai 90 cs, mass Alder 89 cs, mass
$2\pi^+ \pi^0 2\pi^-$ 1016-1926 Barkov 88 cs, mass (1.35-2.4) Antonelli 88 mass	$\eta 2\pi^0 e^- e^+$ (10) Antreasyan 87 mass	$K_S 2\pi^+ 2\pi^-$ X (10) Albrecht 89V mass

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are F_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$e^+ e^- \rightarrow \pi^0 \pi^\pm \mu^\pm \gamma$ neutral (neutrals)

$e^+ e^- \rightarrow e^- e^+$ 6charged (neutrals)

$e^+ e^-$	$e^+ e^-$	$e^+ e^-$
$\pi^0 \pi^\pm (29)$ Riles 89B cs, p	$2\pi^+ 2\pi^- e^- e^+$ (17.5) (29) (34-35) Aithoff 85D mass Aihara 88B mass Braunschweig 89 cs, mass, pt mass	$K^0 K^- 2\pi^+ 2\pi^- X$ (10) Albrecht 89F mass
$2\pi^+ \pi^- e^- \nu$ (neutrals) + (10.34-11.18) Csorna 87 mass, p	(34.5) (34.7) (35-46.6) Berger 88 Berger 88B Braunschweig 88F	$p 4\pi^+ \pi^- X$ (10.5-10.7) Alam 89B mass
$\pi^+ 2\pi^- e^+ \nu$ (neutrals) (10.34-11.18) Csorna 87 mass, p	$\eta \pi^+ e^+ \nu_\tau \bar{\nu}_\tau \nu_e$ (3.77) Coffman 87	$\bar{p} \pi^+ 4\pi^- X$ (10.5-10.7) Alam 89B mass
$2\pi^+ \pi^- \mu^- \nu$ (neutrals) + (10.34-11.18) Csorna 87 mass, p	$\eta \pi^+ e^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_e$ (3.77) Coffman 87	γ 4charged (charged) (neutrals) (9.4-10.6) Albrecht 85B -
$\pi^+ 2\pi^- \mu^+ \nu$ (neutrals) (10.34-11.18) Csorna 87 mass, p	$\eta \pi^- \mu^+ \nu_\tau \bar{\nu}_\tau \nu_\mu$ (3.77) Coffman 87	e^+ 5charged (neutrals) (29) Schaad 85 cs, p, pt
$2\pi^+ 2\pi^-$ neutral (neutrals) (10.34-11.18) Csorna 87 mass, p	$\eta \pi^+ \mu^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_\mu$ (3.77) Coffman 87	e^- 5charged (neutrals) (29) Schaad 85 cs, p, pt
$\rho^+ \pi^+ 2\pi^-$ neutral (neutrals) (10.34-11.18) Csorna 87 mass, p	$2\pi^0 4\pi^\pm ?$ Koltick 85B	μ^+ 5charged (neutrals) (29) Schaad 85 cs, p, pt
$\rho^- 2\pi^+ \pi^-$ neutral (neutrals) (10.34-11.18) Csorna 87 mass, p	$2\pi^+ 2\pi^0 2\pi^-$ (1016-1926) Barkov 88 cs, mass	μ^- 5charged (neutrals) (29) Schaad 85 cs, p, pt
$2\pi^0 (\pi^- \tau^+)$ neutral (neutrals) (29) Ford 87 cs, mass	$3\pi^+ 3\pi^-$ (1016-1926) Barkov 88 cs, mass	7γ 244.6-1079 Dolinsky 89 mass, p
$\pi^+ 2\pi^0 \tau^-$ neutral (neutrals) (29) Ford 87 cs, mass	$2\eta \pi^+ \pi^- \nu_\tau \bar{\nu}_\tau$ (29) Gan 87B mass	$\pi^- e^+ \nu_\tau \bar{\nu}_\tau \nu_e 2\gamma$ (3.77) Coffman 87 mass
$\pi^+ 2\pi^- \tau^+$ neutral (neutrals) (29) Ford 87 cs, mass	$K^+ K^- \pi^+ \pi^- e^- e^+$ (9-29) Gidal 88C mass, pwa (14-36) Aithoff 86D angp, mass	$\pi^+ e^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_e 2\gamma$ (3.77) Coffman 87 mass
$2\pi^+ \pi^- \tau^-$ neutral (neutrals) (29) Ford 87 cs, mass	(29) Aihara 88B mass Aihara 85D angp Braunschweig 89 cs, mass, pt	$\pi^- \mu^+ \nu_\tau \bar{\nu}_\tau \nu_\mu 2\gamma$ (3.77) Coffman 87 mass
$K^+ \pi^+ 2\pi^-$ neutral (neutrals) (10.34-11.18) Csorna 87 mass, p	$2K^+ 2K^- e^- e^+$ (29) Aihara 88B mass	$\pi^+ \mu^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_\mu 2\gamma$ (3.77) Coffman 87 mass
$K^- 2\pi^+ \pi^-$ neutral (neutrals) (10.34-11.18) Csorna 87 mass, p	$K^+ K_S \pi^0 \pi^- e^- e^+$ (4.7-5.3) Albrecht 88N	$2\pi^+ 2\pi^- e^- e^+ \gamma$ (29) Gidal 85 -
$e^- e^+$ 2charged (charged) (neutrals) (35-46.8) Behrend 88F cs, mass, p	$K_S K^- \pi^+ \pi^0 e^- e^+$ (4.7-5.3) Albrecht 88N	$2\pi^+ \pi^0 2\pi^- e^- e^+$ (4.7-5.3) Albrecht 87J -
$e^- e^+$ 4charged (10.52-10.86) Chen 89C mass	$2K_S \pi^+ \pi^- e^- e^+$ (4.7-5.3) Albrecht 88N	(29) Gidal 85 -
$\mu^\pm e^\pm$ 2charged (charged) (neutrals) (35-46.8) Behrend 88F cs, mass, p	$p \bar{p} \pi^+ \pi^- e^- e^+$ (4.7-5.3) Albrecht 88R	(34.6) Berger 85D angp, mass
$\mu^- \mu^+$ 2charged (charged) (neutrals) (35-46.8) Behrend 88F cs, mass, p	$\pi^+ e^- e^+$ 2hadron (hadrons) (10.3-10.6) Grab 87	$2kaon$ (kaons) 2π (π^0) γ (4.14) Adler 89B mass
τ^+ 3charged neutral (neutrals) (29) Ford 87 cs	$\pi^+ \mu^- \mu^+$ 2hadron (hadrons) (10.3-10.6) Grab 87	$p \bar{p} \pi^+ \pi^0 \pi^- e^- e^+$ (4.7-5.3) Albrecht 88R -
τ^- 3charged neutral (neutrals) (29) Ford 87 cs	5charged-hadron (charged-hadrons) (29) Bender 84C col, mult. p, pt	$K^+ \pi^+ 2\pi^-$ 2hadron (hadrons) (29) Kesten 85 mass, pt
0γ 4charged (neutrals) (29) Perl 85 -	5hadron (hadrons) (29) Petersen 88 ang, col	$K^- 2\pi^+ \pi^-$ 2hadron (hadrons) (29) Kesten 85 mass, pt
4hadron (hadrons) charged (29) Petersen 88 ang, p, pt	4charged 2neutral (neutrals) (29) Aihara 86I angp, mass, p	6charged (charged) (neutrals) (29) Sakuda 85 col, p, pt
5γ (7^0) 244.6-978.5 Dolinsky 89 p	6charged (neutrals) (29) Amidei 88 Bylsma 87 ang, angp, mass, p	e^\pm 5charged jet X (29) Porter 89 p, pt
$e^- e^+$ 4γ (9.98-10.02) Albrecht 87Q angp, mass	Ruckstuhl 86 Beltrami 85 p Burchat 85 cs, mass	μ^\pm 5charged jet X (29) Porter 89 p, pt
(10) Bienlein 88 Kolanoski 85 angp, mass	$2\pi^+ 2\pi^- 2\gamma X$ (29) Wormser 88B mass	$e^- e^+ 6\gamma$ (9-29) Gidal 88C mass, pwa (10) Bienlein 88 mass Antreasyan 87 mass
$\mu^- \mu^+ 4\gamma + e^- e^+ 4\gamma$ (10.02) Irion 85 -	$\pi^0 5\pi^\pm X$ (29) Koltick 85B Naroska 85	$\pi^+ \pi^0 2\pi^- e^+ \nu_\tau \bar{\nu}_\tau \nu_e$ (3.77) Coffman 87 mass
$\pi^+ \pi^- 4\gamma$ 706.9-1904 Dolinsky 89B cs, mass	$3\pi^+ 3\pi^- X ?$ Koltick 85B	$2\pi^+ \pi^0 2\pi^- e^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_e$ (3.77) Coffman 87 mass
$\pi^+ \pi^- e^- e^+ 2\gamma$ (29) Aihara 88E angp, p	$K^- 3\pi^+ 2\pi^- X$ (10) Albrecht 89V mass	$\pi^+ \pi^0 2\pi^- \mu^+ \nu_\tau \bar{\nu}_\tau \nu_\mu$ (3.77) Coffman 87 mass
? Gidal 85 Kolanoski 85 -		$2\pi^+ 2\pi^0 2\pi^- e^- e^+$ (9.4-10.6) Albrecht 87K -
$\pi^+ 2\pi^0 \pi^- e^- e^+$ (4.7-5.3) Albrecht 89F -		8charged (neutrals) (29) Bylsma 87 ang, angp, mass, p
$2\pi^+ 2\pi^- e^- e^+$ (9-29) Gidal 88C mass, pwa		$e^- e^+$ 6charged (neutrals) (17-17.5) Braunschweig 90B angp, cs, mass, p

$$e^+ e^- \rightarrow 3\pi^+ 2\pi^0 3\pi^- 2(\text{neutrals})$$

$$\mu^+ p \rightarrow \omega \mu^+ X$$

e⁺ e⁻		μ⁻ nucleon			μ⁻ ¹⁸²Sm	
3π⁺ 2π⁰ 3π⁻ 2(neutrals) (29) Abachi 87F mass		μ⁻ X 1 - 400 Berger 86B angp. cs. p		¹⁶²Sm* e⁻ ν_μ ν_e 0 Mitropolskii 87 cs		
e⁻ e⁺ 8charged (neutrals) (17 - 17.5) Braunschweig 90B angp. cs. mass. p		μ⁻ deuteron		μ nucleus		
e⁺ nucleus		μ⁻ X 1 - 400 Berger 86B angp. cs. p		p X 32 Rabin 86 ang. angp. p. pt		
e⁺ hadron X 20.5 Fredrikson 87 a-dep. p. pt		μ⁻ ¹²C		mult[black] X 150 Jain 88 mult		
e[±] nucleus		¹²Bor ν_μ γ 0 Hasinoff 89 p Hasinoff 88 p		mult[shower] X 150 Jain 88 mult		
p X 5 Degtyarenko 90 p		μ⁻ C		shower X 150 Jain 88 mult		in. lit. p
Δ(1232 P₃₃)⁺⁺ X 5 Degtyarenko 90 p		μ⁻ X 120 - 280 Benvenuti 87 p Benvenuti 87C p		mult[black] mult[shower] X 150 Jain 88 cor. mult		
Δ(1232 P₃₃)⁰ X 5 Degtyarenko 90 p		μ⁻ 2μ⁺ X 200 Benvenuti 85 p. pt		mult[black] shower X 150 Jain 88 cor. mult. p		
e[±] γ X 5 Degtyarenko 89 mult		D⁰ D⁰ μ⁻ X 200 Benvenuti 85		μ⁺ e⁻		
π⁰ e[±] X 5 Degtyarenko 89 mult		D⁺ D⁰ μ⁻ X 200 Benvenuti 85		muonium 0.01 Ni 87 - 0.02 Huber 88 flux Beer 86 flux Janissen 89 -		
π⁺ e[±] X 5 Degtyarenko 89 angp. mult. p		D⁰ D⁻ μ⁻ X 200 Benvenuti 85		μ⁻ e⁺ 0 Huber 88 cs Ni 87 amp Beer 86 cs Huber 89 -		
π⁻ e[±] X 5 Degtyarenko 89 angp. mult. p		μ⁻ ¹⁶O		μ⁺ p		
K⁺ e[±] X 5 Degtyarenko 89 mult		¹⁶Nit ν_μ γ 0 Hasinoff 89 p Hasinoff 88 p		mult[charged] X 280 Arneodo 86E col. p. pt		
K⁻ e[±] X 5 Degtyarenko 89 mult		μ⁻ ³²S		μ⁺ X 1 - 400 Berger 86B angp. cs. p 100 - 200 Ashman 89 p. pol Ashman 88B asym 100 - 280 Benvenuti 89 p Benvenuti 89C const. p Benvenuti 87D p Aubert 85D p		
K_S e[±] X 5 Degtyarenko 89 mult		μ⁻ ³⁴S		J/ψ(1S) X 280 Aubert 84C cs. p		
p e[±] X 5 Degtyarenko 89 angp. mult. p		³⁴S μ⁻ γ 0 Schaller 85 -		D⁰ X 280 Grab 87 cs		
p̄ e[±] X 5 Degtyarenko 89 mult		μ⁻ ³⁶S		D⁰ X + D⁰ X 280 Aubert 85 cs		
p π⁺ X 5 Degtyarenko 90 mass		³⁶S μ⁻ γ 0 Schaller 85 -		mult[hadron] X 280 Arneodo 86E col. p. pt		
p π⁻ X 5 Degtyarenko 90 mass		μ⁻ ⁴⁰Ca		p μ⁺ 1 - 400 Berger 86B angp. cs. p		
Λ e[±] X 5 Degtyarenko 89 mult		⁴⁰KK ν_μ γ 0 Hasinoff 89 p Hasinoff 88 p		μ⁺ γ X 200 Aubert 89 angp. p. pt		
deuteron e[±] X 5 Degtyarenko 89 mult. p		μ⁻ Ti		μ⁺ charged X 280 Arneodo 88B p		
mult[p] e[±] X 5 Degtyarenko 89 mult		Ca e⁺ 0 Ahmad 87 cs. p 0.073 Blocher 87 cs. p		μ⁻ μ⁺ X 280 Grab 87 mass Aubert 85 mass		
2π e[±] X 5 Degtyarenko 89 cor		Ca* e⁺ 0 Ahmad 88 cs. p. qnc		π⁰ μ⁺ X 200 Aubert 89 p. pt		
2p e[±] X 5 Degtyarenko 89 cor. mass		Ti e⁻ 0 Ahmad 88 cs. p. qnc Ahmad 87 cs. p Numao 86 p. qnc Numao 86B p. qnc Burnham 87 cs. qnc Bryman 85 cs		π⁺ μ⁺ X 280 Arneodo 89 p		
d gluon		μ⁻ Fe		π⁻ μ⁺ X 280 Arneodo 89 p		
d gluon ? Breakstone 90 angp		inelastic 50 - 120 Kopp 85 p		ρ⁰ μ⁺ X 120 - 280 Aubert 85C angp. cs. pol		
u gluon		μ⁻ X 93 - 215 Meyers 86 p		ω μ⁺ X 280 Arneodo 85D mult. p. pt		
u gluon ? Breakstone 90 angp		μ⁻ ⁹⁰Zr				
μ⁻ p		⁹⁰Zr μ⁻ γ 0 Phan 85 mass. p				
μ⁻ X 1 - 400 Berger 86B angp. cs. p						
p μ⁻ 1 - 400 Berger 86B angp. cs. p						

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c. or in parentheses E_{cm} in GeV. See the legend on page 153.

$$\mu^+ p \rightarrow D^0 \mu^+ X$$

$$\mu^+ C \rightarrow \bar{D}^0 D^- \mu^+ X$$

$\mu^+ p$		$\mu^+ p$		μ^+ deuteron	
$D^0 \mu^+ X$ 240 - 280	Aubert 86C	p, pt	$\bar{\Lambda} K^+ \mu^+ X$ 280	Arneodo 86H	mult
$K^+ \mu^+ X$ 280	Arneodo 89 Arneodo 86H	p mult, p	$\bar{\Lambda} K^- \mu^+ X$ 280	Arneodo 86H	mult
$K^- \mu^+ X$ 280	Arneodo 89 Arneodo 86H	p mult, p	$\Lambda K_S \mu^+ X$ 280	Arneodo 86H	mult
$K_S \mu^+ X$ 120 - 280	Arneodo 85B Arneodo 86H	mult, mult mult, p	$\bar{\Lambda} K_S \mu^+ X$ 280	Arneodo 86H	mult
$p \mu^+ X$ 280	Arneodo 89 Arneodo 87C	p mult, p	$p \bar{p} \mu^+ X$ 280	Arneodo 87C	mult, p
$\bar{p} \mu^+ X$ 280	Arneodo 89 Arneodo 87C	p mult, p	$2p \mu^+ X$ 280	Arneodo 87C	mult, p
$\Lambda \mu^+ X$ 280	Arneodo 86H	mult, p	$2\bar{p} \mu^+ X$ 280	Arneodo 87C	mult
$\bar{\Lambda} \mu^+ X$ 280	Arneodo 86H	mult, p	$\Lambda \bar{\Lambda} \mu^+ X$ 280	Arneodo 86H	mult
μ^+ charged-hadron X 120 - 280	Arneodo 85B	mult, mult	$2\Lambda \mu^+ X$ 280	Arneodo 86H	mult
280	Aubert 85B Arneodo 85	angp, p, pt mass, mult	μ^+ nucleon		
μ^+ hadron X 280	Aubert 86	mass, p	$\mu^+ X$ 1 - 400	Berger 86B Jain 87C	angp, cs, p mult, p
μ^+ hadron ⁺ X 120 - 280	Arneodo 85B Aubert 86	mult mass, p	150		
μ^+ hadron ⁻ X 120 - 280	Arneodo 85B Aubert 86	mult mass, p	$\pi^+ \mu^+ X + \pi^- \mu^+ X$ 280	Arneodo 87	mass, p
μ^+ mult[charged] (neutrals) 280	Arneodo 88B Derado 97 Arneodo 88B	mult col, mass, mult, p	$K^+ \mu^+ X + K^- \mu^+ X$ 280	Arneodo 87	mass, p
$p \rho^0 \mu^+$ 120 - 200	Ashman 88C	angp, cs	$K_S \mu^+ X$ 280	Arneodo 87	mass, p
$p \phi \mu^+$ 120 - 200	Ashman 88C	angp, cs	$p \mu^+ X + \bar{p} \mu^+ X$ 280	Arneodo 87	mass, p
$2\pi^+ \mu^+ X$ 280	Arneodo 86C	mass	μ^+ hadron X 280	Arneodo 87	mass, p, pt
$2\pi^- \mu^+ X$ 280	Arneodo 86C	mass	μ^+ mult[hadron] X 280	Arneodo 87	col
$\pi^+ \pi^- \mu^+ X$ 280	Arneodo 86C	mass	charm charm X 200	Arneodo 86F	-
$K^+ \pi^- \mu^+ X$ 240 - 280	Aubert 86C	mass	μ^+ mult[charged] (neutrals) 150	Jain 87C	mult, p
$K^- \pi^+ \mu^+ X$ 240 - 280	Aubert 86C	mass	nucleon $e^+ \gamma$ 0.0786	Hogan 86	-
$K^+ K^- \mu^+ X$ 280	Arneodo 86H	mult	μ^+ 2jet 280	Arneodo 87	pt
$2K^+ \mu^+ X$ 280	Arneodo 86H	mult	nucleon $e^+ 2\gamma$ 0.0786	Hogan 86	-
$2K^- \mu^+ X$ 280	Arneodo 86H	mult	nucleon $e^- 2e^+$ 0.0786	Hogan 86	-
$K^+ K_S \mu^+ X$ 280	Arneodo 86H	mult	μ^+ 3jet 280	Arneodo 87	pt
$K_S K^- \mu^+ X$ 280	Arneodo 86H	mult	μ^+ deuteron		
$2K_S \mu^+ X$ 280	Arneodo 86H	mult	$\mu^+ X$ 1 - 400	Berger 86B	angp, cs, p
$\Lambda K^+ \mu^+ X$ 280	Arneodo 86H	mult	100 - 280	Ashman 88	a-dep, p
$\Lambda K^- \mu^+ X$ 280	Arneodo 86H	mult	120 - 280	Benvenuti 89B	p
			200	Benvenuti 87B	a-dep, p
			280	Arneodo 89B	p
				Arneodo 85	p
				Aubert 87	p
				Bari 85	a-dep, p
				Benvenuti 86	a-dep, p
			$J/\psi(1S) X$ 280	Aubert 84C	cs, p
			$D^0 X$ 280	Grab 87	cs
			$D^0 X + \bar{D}^0 X$ 280	Aubert 85	cs
			μ^+ charge	Arneodo 88B	p
			280		
			μ^+ C		
			inelastic 110 - 120	Kopp 85	p
			$\mu^+ X$ 100 - 280	Ashman 88	a-dep, p
			120 - 280	Benvenuti 87	p
			280	Benvenuti 87C	p
				Arneodo 89B	p
				Arneodo 88	p
			bottom bottom X 200	Benvenuti 85	cs
			$2\mu^- \mu^+ X$ 200	Benvenuti 85	p, pt
			$D^0 \bar{D}^0 \mu^+ X$ 200	Benvenuti 85	-
			$D^+ \bar{D}^0 \mu^+ X$ 200	Benvenuti 85	-
			$\bar{D}^0 D^- \mu^+ X$ 200	Benvenuti 85	-

$\mu^+ C \rightarrow D^0 D^- \mu^+ X$

$\pi^- p \rightarrow \rho^+ X$

$\mu^+ C$	$\mu^\pm p$	$\pi^- e^-$
$D^0 D^- \mu^+ X$ 200 Benvenuti 85	mult[A] X 100 - 280 Nagy 89 cs. mult. p	$\pi^- e^-$ 300 Amendolia 86 angp
$\mu^+ \text{Nit}$	mult[$\bar{\Lambda}$] X 100 - 280 Nagy 89 cs. mult. p	$\pi^0 \pi^- e^-$ 300 Amendolia 85 angp
$\mu^+ X$ 280 Bari 85 a-dep. p	mult[<i>strange</i>] X 100 - 280 Nagy 89 cs. mult. p	$\pi^- p$
$\pi^+ \pi^- X$ 120 - 200 Ashman 88C mass	$p \rho^0 \mu^\pm$ 100 - 280 Nagy 89 p. pol	charged X 40 Baldin 85B col. p Grishin 85 mult Apsimon 85 cs. pt
$K^+ K^- X$ 120 - 200 Ashman 88C mass	μ^\pm nucleon	80 - 140 Verbeure 87 mult
$\mu^+ \text{Ca}$	X (34.97 - 75.11) Price 85 mult	charged- X 40 Gabunia 90 a-dep. mult. p
$\mu^+ X$ 280 Arneodo 89B p Arneodo 88 p	nucleon μ^\pm ? Klein 84B cs	mult[charged] X 40 Baldin 86 col 360 Aguilardenit 85F p
$\mu^+ \text{Fe}$	μ^\pm deuteron	mult[charged] (neutrals) 4 5 Perepelitsa 88 cs. qnc 38 Boos 87B ang. mult. p. pt
inelastic 50 - 120 Kopp 85 p	mult[charged] X 100 - 280 Nagy 89 cs. mult. p	$\rho^0 X$ 100 - 280 Nagy 89 cs. p
$\mu^+ X$ 93 - 215 Meyers 86 p 120 - 280 Aubert 86B p 200 Benvenuti 87B a-dep. p 280 Bari 85 a-dep. p ? Benvenuti 86 a-dep. p	ωX 100 - 280 Nagy 89 cs. p	ϕX 100 - 280 Nagy 89 cs. p
$J/\psi(1S) X$ 250 Aubert 84C cs. p	$J/\psi(1S) X$ 100 - 280 Nagy 89 cs. p	$J/\psi(1S) X$ 100 - 280 Nagy 89 cs. mult. p
$\mu^- \mu^+ X$ 200 Arneodo 86F -	mult[K^+] X 100 - 280 Nagy 89 cs. mult. p	$\mu^\pm X$ 100 - 280 Nagy 89 cs. mult. p
$2\mu^+ X$ 200 Arneodo 86F -	mult[K^-] X 100 - 280 Nagy 89 cs. mult. p	mult[K^0] X 100 - 280 Nagy 89 cs. mult. p
$\mu^+ \text{Cu}$	mult[Λ] X 100 - 280 Nagy 89 cs. mult. p	mult[$\bar{\Lambda}$] X 100 - 280 Nagy 89 cs. mult. p
$\mu^+ X$ 100 - 280 Ashman 88 a-dep. p	mult[$\bar{\Lambda}$] X 100 - 280 Nagy 89 cs. mult. p	mult[<i>strange</i>] X 100 - 280 Nagy 89 cs. mult. p
$\mu^+ \text{Sn}$	mult[<i>strange</i>] X 100 - 280 Nagy 89 p	2<i>strange</i> X 100 - 280 Nagy 89 p
μ^+ nucleus	$J/\psi(1S) X$ 250 - 280 Fredriksson 87 cs	$\mu^\pm \text{}^7\text{Li}$ $\text{}^7\text{Li } \mu^\pm \gamma$ 0 Ruckstuhl 85B p
$p X$ 32 Rabin 86 ang. angp. p. pt	$\mu^+ \text{hadron X}$ 280 Fredriksson 87 a-dep. p. pt	$\mu^\pm \text{}^{13}\text{C}$ $\text{}^{13}\text{C } \mu^\pm \gamma$ 0 Deboer 85
mult[<i>track</i>] shower X 150 Fredriksson 87 cor. mult	mult[K^+] X 100 - 280 Nagy 89 cs. mult. p	$\mu^\pm \text{}^{24}\text{Mg}$ $\text{}^{24}\text{Mg } \mu^\pm \gamma$ 0 Beltrami 85B
$\mu^\pm p$	mult[K^-] X 100 - 280 Nagy 89 cs. mult. p	$\mu^\pm \text{}^{28}\text{Si}$ $\text{}^{28}\text{Si } \mu^\pm \gamma$ 0 Beltrami 85B
mult[charged] X 100 - 280 Nagy 89 cs. cs. mult. mult. p. p	mult[K^0] X 100 - 280 Nagy 89 cs. mult. p	μ^\pm nucleus
$\rho^0 X$ 100 - 280 Nagy 89 cs. p	mult[Λ] X 100 - 280 Nagy 89 cs. mult. p	$\mu^\pm X$ 400 - 5 · 10 ³ Zatsepin 89 p
ωX 100 - 280 Nagy 89 cs. p	mult[<i>strange</i>] X 100 - 280 Nagy 89 cs. p	$p X$ 32 Rabin 85 angp. p
ϕX 100 - 280 Nagy 89 cs. p	2<i>strange</i> X 100 - 280 Nagy 89 p	hadron X 4.999 - 150 Asatiani 85 angp. cs. mult
$J/\psi(1S) X$ 100 - 280 Nagy 89 cs. p	μ^\pm nucleon	$\mu^\pm \text{mult[fragt]}$ 32 Rabin 88 angp. p
mult[K^+] X 100 - 280 Nagy 89 cs. mult. p	$\mu^\pm X$ 400 - 5 · 10 ³ Zatsepin 89 p	nucleus $\rho^0 \mu^\pm$ 100 - 280 Nagy 89 p. pol
mult[K^-] X 100 - 280 Nagy 89 cs. mult. p	$p X$ 32 Rabin 85 angp. p	
mult[K^0] X 100 - 280 Nagy 89 cs. mult. p	hadron X 4.999 - 150 Asatiani 85 angp. cs. mult	
	$\mu^\pm \text{mult[fragt]}$ 32 Rabin 88 angp. p	
	nucleus $\rho^0 \mu^\pm$ 100 - 280 Nagy 89 p. pol	
		$\pi^+ X$ 5 - 40 Bajramov 89 p 58 Paub 85 p. pt 360 Bailly 87G cs. p. pt Bailly 87H cs. p. pt Verbeure 87 cs. p
		$\pi^- X$ 5 - 40 Bajramov 89 p 58 Paub 85 p. pt 360 Bailly 87G cs. p. pt Bailly 87H cs. p. pt Verbeure 87 cs. p
		ηX 3.3 - 4.75 Arkhipov 88 angp. mass Arkhipov 87 mass Amaglobeli 89 asym. pt Apokin 89 asym. pt Bonesini 89 cs. p. pt Richard 87 p. pt Bailly 87G cs. p. pt Bailly 87H cs. p. pt Aguilarbenit 86C cs. p. pt
		$\rho^+ X$ 250 Adamus 87G cs 360 Aguilardenit 85 cs. p. pt

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have 1 changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} , in GeV/c, or in parentheses E_{lab} , in eV. See the legend on page 153.

$\pi^- p \rightarrow \rho^- X$

$\pi^- p \rightarrow n \pi^0$

$\pi^- p$		$\pi^- p$		$\pi^- p$	
$\rho^- X$		$D_S^+ X$		$\Lambda_c^+ X$	
250	Adamus 87B	360	cs	360	Klein 89C
360	Aguilarenbit 89		cs, p, pt		Aguilarenbit 87H
		$D^*(2010)^0 X$			Aguilarenbit 86D
$\rho^0 X$		360			cs, p, pt
5	Antos 87		pol	$\bar{\Lambda}_c^- X$	
38	Bannikov 88		angp	360	Aguilarenbit 87H
250	Adamus 87B	$\bar{D}^*(2010)^0 X$	cs		Aguilarenbit 86D
360	Aguilarenbit 89	360	cs, p, pt		cs, p, pt
		$D^*(2010)^+ X$	cs, p, pt	ΛX	
ωX		360		4 - 205	Panagiotou 89
250	Adamus 87B		cs		Boos 87B
		$D^*(2010)^- X$	cs, p, pt	38	Gabunia 89
$\eta' X$		13		40	Baldin 85B
360	Bailly 87G	360	cs, p, pt		Grishin 85
	Bailly 87H		cs, p, pt		Grishin 85B
	Aguilarenbit 86C	$K^+ X$	cs	360	Bailly 86
ϕX		58		$\bar{\Lambda} X$	
360	Aguilarenbit 89	360	p, pt	360	Bailly 86
			cs, p, pt	$\Sigma(1385 P_{13})^+ X$	
$a_1(1260)^0 X$				16	Karnaukhov 86
100	Chapin 85	$K^- X$			Karnaukhov 86
$f_2(1270) X$		58		$\Sigma(1385 P_{13})^- X$	
360	Bailly 87C	360	p, pt	16	Aguilarenbit 85F
$\pi_2(1670)^0 X$			cs, p, pt		
100	Chapin 85	$K^0 X$		bottom X	
$\rho_3(1690)^0 X$		40		200	Arenton 86
360	Bailly 87C	$K^*(892)^+ X$		hadron^+ X	
$\chi_{c0}(1P) X$		4.35 - 4.85		360	Bailly 86
27	Prokoshkin 87C	360	a-dep, p, pt	hadron^- X	
				360	Bailly 86
$D^0 X$		$K^*(892)^0 X$		jet X	
360	Aguilarenbit 87B	16		40	Baldin 88B
	Aguilarenbit 87D	360	cs, p, pt		Baldin 85
	Aguilarenbit 87E		cs, p, pt	200	Baldin 85B
	Aguilarenbit 87F	$K^*(892)^- X$			Tannenbaum 89
	Aguilarenbit 86	4.35 - 4.85			Arenton 85B
	Aguilarenbit 86D	360	cs, p, pt		angp, p, pt
	Aguilarenbit 85E		cs, p, pt	mult[hadron] X	
		$\bar{K}^*(892)^0 X$		5.7 - 205	Baldin 87
$\bar{D}^0 X$		360		40	Baldin 86B
360	Aguilarenbit 87B		Aguilarenbit 89		col
	Aguilarenbit 87D	$K^*(\text{unspec})^+ X$		mult[jet] X	
	Aguilarenbit 87E	16		40	Baldin 86
	Aguilarenbit 87F		Karnaukhov 87	tachyon^+ X	
	Aguilarenbit 86	$K^*(\text{unspec})^- X$		4.5	Perepelitsa 87
	Aguilarenbit 86D	16		tachyon^- X	
	Aguilarenbit 85E	$K^*(\text{unspec})^0 X$		4.5	Perepelitsa 87
		16	cs, p, pt	$\pi^0 (\text{neutrals})$	
$D^0 X + \bar{D}^0 X$		$K_S X$		200	Kennett 87
360	Aguilarenbit 85	40		$n \gamma$	
$D^+ X$			col, p	0.9773	Stanislaus 89
360	Aguilarenbit 87B		mult, p	0.1217 - 0.2211	
	Aguilarenbit 87D		cs, p, pt	0.427 - 0.625	Bagheri 87B
	Aguilarenbit 87E	360	cs, p		Kim 89D
	Aguilarenbit 87F	$D_S^{\pm} X$			Kim 86
	Aguilarenbit 86	200		$n \pi^0$	
	Aguilarenbit 86D	$p X$		0	Niebuhr 89
	Aguilarenbit 85E	1.84 - 2.63			Crawford 88
		q,9	ang, angp, p	0.0456 - 0.1219	Crawford 86
$D^- X$					Bagheri 87
360	Aguilarenbit 87B		angp, mass, pt	0.1006 - 0.1471	angp, pwa
	Aguilarenbit 87D	30	a-dep, p, pt		Fitzgerald 86
	Aguilarenbit 87E	100	angp, mass	0.301 - 0.625	Kim 90
	Aguilarenbit 87F	360	cs, p, pt		Kim 89
	Aguilarenbit 86		cs, p, pt	0.547 - 0.687	Wightman 88
	Aguilarenbit 86D		cs, p		angp, asym, pol
	Aguilarenbit 85E	$\bar{p} X$			Wightman 87
		30	a-dep, p, pt	< 1.232	Arndt 85
$D_S^- X$		360	cs, p, pt	2.969 - 3.965	Suzuki 87
360	Aguilarenbit 86D		cs, p, pt	2.969 - 4.22	Mimowa 87
	Aguilarenbit 85C	$\Delta(1232 P_{33})^{++} X$		4.314 - 18.7	Zhokin 89
		5	angp, cs, p	39.1	Apokin 86C
					angp, cs

$\pi^- p \rightarrow n \pi^0$

$\pi^- p \rightarrow n f_4(2050)$

$\pi^- p$	$\pi^- p$	$\pi^- p$
$n \pi^0$	$N(1700 B)^+ \pi^-$	$n a_2(1320)^0$
40	4.5	Aleshin 87
Siksin 87	amp	
Apokin 86	8 - 40	Landsberg 86
angp, asym, pol	30 - 38	Alde 87B
Kazarinov 85	32.5	Bituyukov 90
Avvakumov 84	38	Landsberg 88
angp, pol	38	ang, angp, mass
Borisov 84	angp, pol	Alde 86B
		Alde 86D
		angp, cs
		Apokin 86C
		angp, cs
		Apokin 85B
		angp, pol
$p \pi^-$	$n a_0(980)^0$	$n \eta(1440)$
0.03 - 0.67	100	8
0.1356		8.06
		32.5
		40
		?
0.2445 - 0.4168	$\Delta(1232 F_{33})^0 \rho^0$	$n \eta(1440)$
	4.314 - 18.7	8
0.295 - 0.45	$n h_1(1170)$	8.06
0.378 - J.687	8.01	8.95
0.45	8.06	
Bekrenev 86	angp, asym, pol	
pol		
0.45 - 0.56	$n b_1(1235)^0$	
Abaev 88B	8.95	
0.471 - 0.625	8.01	
Barlow 89	8.06	
angp, asym, pol	$n a_1(1260)^0$	
Mokhtari 86	8.01	
angp, asym, pol	8.06	
0.471 - 0.687	$n \rho(1450)^0$	
	8.95	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
0.547 - 0.625	$n f_2(1270)$	
0.547 - 0.687	4.314 - 18.7	
	22	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f'_2(1525)$	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$\Delta(1232 F_{33})^0 f_2(1270)$	
	4.314 - 18.7	
	39.1	
	40	
	100	
	$n \eta(1295)$	
	8	
	8.06	
	8.95	
	32.5	
	$n f_1(1285)$	
	8	
	8.06	
	8.95	
	22	
	32.5	
	$N(2100 B)^+ \pi^-$	
	4.5	
	$n a_2(1320)^0$	
	40	
	100	
	$N(1680 F_{15})^0 \rho^0$	
	4.314 - 18.7	
	22	
	$n f_2(1270)$	
	4.314 - 18.7	
	22	
	$n \rho(1450)^0$	
	8.95	
	$n f_2(1270)$	

$\pi^- p \rightarrow n f_4(2220)$ $\pi^- p \rightarrow \pi^0 \text{ mult[charged]} (\text{neutrals})$

$\pi^- p$		$\pi^- p$		$\pi^- p$	
$n f_4(2220)$		$n \text{ glueball}$		$K^+ \pi^0 X$	
38 - 100	Augustin 88C	22	Etkin 88	360	Aguilardenit 89
	Toki 87		Longacre 87		mass, p, pt
	Alde 86E		Longacre 86B	$K^- \pi^0 X$	
40	Toki 88B		Etkin 85	360	Aguilardenit 89
100	Alde 86		Tsukerman 85B		mass, p, pt
$n f_2(2300)$		38	Tsukerman 85B	$K^+ \pi^- X$	
22	Augustin 88C	40	Prokoshkin 85	360	Aguilardenit 89
	Longacre 87	100	Alde 86		mass, p, pt
	Longacre 86B	charged (charged) (neutrals)		$K^- \pi^+ X$	
40	Tsukerman 85B	4.5	Perepelitsa 87	360	Aguilardenit 89
	Bolonkin 88	$2\gamma X$			mass, p, pt
	Bolonkin 87	3.3 - 4.75	Arkhipov 88	$K^0 \pi^+ X$	
$n f_2(2340)$		40	Arkhipov 87	4.35 - 4.85	Arutyunyan 85
22	Augustin 88C		Amaglobeli 89		ang
	Longacre 87			$K^0 \pi^- X$	
	Longacre 86B		Apokin 89	4.35 - 4.85	Arutyunyan 85
	Tsukerman 85B		Bonvin 90		ang
$n \eta_c(1S)$		280	Bonvin 89	$K^+ K^- X$	
13	Chiang 86			360	Aguilardenit 89
$n J/\psi(1S)$		300	Demarzo 87B		mass, p, pt
13	Chiang 86		Albrow 88		pt
$\Lambda_c^+ D^*(2010)^-$		$e^- e^+ X$	Alekseev 87B	$K^0 \bar{K}^0 X$	
13	Christenson 85	0.2696		4.35 - 4.85	Arutyunyan 85
$\Sigma_c(2455)^+ D^*(2010)^-$		$\mu^- \mu^+ X$		$2K^0 X$	
13	Christenson 85	40 - 225	Rutherford 85	4.35 - 4.85	Aleshin 85
ΛK^0		225	Rutherford 85		cs
4.35 - 4.85	Aleshin 85	$\pi^+ \pi^0 X$		$K_S \pi^+ X$	
40	Avvakumov 86	360	Aguilardenit 89	16	Karnaukhov 87
					mass
$\Lambda K^0 + \Sigma^0 K^0$		$\pi^0 \pi^- X$		$K_S \pi^- X$	
3.15 - 7.9	Bachman 86	360	Aguilardenit 89	16	Karnaukhov 87
					mass
$\Sigma^0 K^0$		$2\pi^+ X$		$2K_S X$	
4.35 - 4.85	Aleshin 85	4.9	Dzhincharadz 86	4.35 - 4.85	Aleshin 85
		4.91	Glagolev 85		cs
$\Sigma^- K^+$		$2\pi^- X$		$p \pi^+ X$	
9.9	Baller 88	4.9		5	Antos 88
$p \text{ meson}^-$		4.91	Dzhincharadz 86		mass
6	Takamatsu 89		Glagolev 85	$\Lambda \text{ charged}^- X$	
				40	Gabunia 90
$n \text{ meson}$		$\pi^+ \pi^- X$			a-dep, mult, p
40	Bolonkin 87	4.91	Glagolev 85	$\Lambda \pi^+ X$	
		5	Antos 87	16	Karnaukhov 87
$n \text{ meson}^0$		38	Bannikov 88	$\Lambda \pi^- X$	
1 - 60	Prokoshkin 87C	360	Aguilardenit 89	16	Karnaukhov 87
8	Birman 88			$\Lambda K^0 X$	
8.06	Ando 86		Bailey 87C	4.35 - 4.85	Arutyunyan 85
8.95	Takamatsu 89				ang
17.2	Rybicki 86			$p \bar{p} X$	
32.5	Landsberg 88			30	Beusch 86
	Landsberg 87				a-dep, ang, mass, p, pt
	Prokoshkin 87B			$\gamma \text{ jet } X$	
				280	Bonesini 89B
	Bituykov 86			$\pi^- \text{ jet } X$	
	Bituykov 85			40	Baldin 85
	Alde 89			$\rho^0 \text{ jet } X$	
	Alde 88C			40	Baldin 85
	Alde 88D			$K_S \text{ jet } X$	
	Alde 86C			40	Baldin 85
	Alde 86E			$\Delta(1232 P_{33})^{++} \text{ jet } X$	
	Toki 88B			40	Baldin 85
	Baloshin 87			$\Lambda \text{ jet } X$	
	Prokoshkin 87B			40	Baldin 85
	Baloshin 84			$2\text{hadron}^- X$	
	Prokoshkin 87			58	Paub 85
	Boutemeur 89			$\text{hadron}^+ \text{hadron}^- X$	
	Alde 88E			58	Paub 85
				$2\text{jet } X$	
				200	Naudet 86
					p, pt
					Arenton 85B
					ang, col, et, pt
				$p \pi^- (\text{neutrals})$	
				9.9	Heppelmann 85
					ang, angp, pwa
$n C(1480)^0$		$D^+ D^- X$		$\Lambda K^0 (\text{neutrals})$	
32.5	Augustin 88C	360	Aguilardenit 85D	4.35 - 4.85	Aleshin 85
	Landsberg 88				cs
	Bituykov 85			$\pi^0 \text{ mult[charged]} (\text{neutrals})$	
$n \text{ glueball}$		$K^0 \text{ charged}^- X$		360	Aguilardenit 86C
21.4	Chan 88	40	Gabunia 90		cs, mult, p

$\pi^- p \rightarrow \pi^+$ mult[charged] (neutrals) $\pi^- p \rightarrow n 2\gamma$ (γ 's)

$\pi^- p$	$\pi^- p$	$\pi^- p$
π^+ mult[charged] (neutrals)	$n 2\eta$	$\Lambda K^*(892)^+ \pi^-$
5 Bajramov 86 mult, p, pt	38 Alde 88D mass	4.35 - 4.85 Aleshin 85 cs
π^- mult[charged] (neutrals)	Alde 86C mass, p	$n K^*(892)^0 K_S + n K^*(892)^- K^+$
5 Bajramov 86 mult, p, pt	Tsukerman 85B mass	8 Toki 88B mass
$n 2\gamma$	Toki 88B mass	$n K^*(892)^0 K_S + n \bar{K}^*(892)^0 K_S$
13 Chiang 86 mass	Prokoshkin 87B mass, pwa	21.4 Toki 88B mass
$n e^- e^+$	Prokoshkin 87C angp, mass	$n 2K_S$
0 Niebuhr 89 ang, angp, mass	Prokoshkin 85 mass, pwa	22 Longacre 86 -
13 Chiang 86 ang, angp, mass	Alde 86 angp, mass, pwa	Longacre 86B mass
$p \pi^- \gamma$	Augustin 85E -	Alde 88D mass, pwa
0 Bovet 84 amp, cs	$n a_0(980)^0 \pi^0$	Bolonkin 88 angp, mass, pwa
40 Antipov 89B angp, cs, mass	21.4 Toki 88B mass	Bolonkin 88 angp, mass, pwa
$n \mu^- \mu^+$	22 Toki 88B mass	Toki 88B angp, mass
8 - 40 Landsberg 86 -	8 Toki 88B mass	Baloshin 87 angp, mass
25 - 33 Landsberg 85 mass	? Ando 86 -	Bolonkin 87 mass, pwa
$n 2\pi^0$	$n a_0(980)^- \pi^+$	Prokoshkin 87C mass
25 Apel 85B ang, mass	? Ando 86 -	Baloshin 84 ang, cs, mass, pwa
38 Alde 88D mass	$n \phi \pi^0$	$n \Lambda \bar{\Lambda}$
39.1 Apokin 88 angp, asym, mass	32.5 Augustin 88C mass	40 Prokoshkin 87C angp, mass
40 Prokoshkin 87C mass	Landsberg 88 ang, angp, mass	$n \eta \pi \pi (L=0)$
Apokin 86B mass	Landsberg 87 mass, p	8.06 Ando 86 mass, pwa
$p \pi^0 \pi^-$	Prokoshkin 87B mass, p	2hadron (hadrons)
0.29 - 0.45 Kernei 89 amp, cs	Prokoshkin 87B mass, p	40 Baldin 88B col
9.9 Heppelmann 85 amp, cs, mass	Bituykov 86 mass, p	2charged (charged) (neutrals)
dme, pwa	Bituykov 86B mass, p	80 - 140 Apsimon 90 col, pt
$n \pi^+ \pi^-$	Prokoshkin 87C mass	$\pi^+ \pi^0 \pi^- X$
0.29 - 0.45 Kernei 89B amp, cs, mass	$\Delta(1232 P_{33})^{++} \rho^- \pi^-$	250 Adamus 87B mass
0.4567 Balandin 85 ang	4.5 Aleshin 87 mass	360 Aguliarbenit 89 mass, p, pt
17.2 Rybicki 86 angp, mass, pwa	Aleshin 86B cs	$2\pi^+ \pi^- X$
Svec 84 angp, mass, pwa	Toki 88B -	360 Aguliarbenit 85C mass
17.2 - 63 Rybicki 85 mass, pwa	Rath 89 cs	$\pi^+ 2\pi^- X$
32.5 Landsberg 88 ang, angp, mass	Alde 88D mass	360 Aguliarbenit 85C mass
Landsberg 87 mass, p	Tsukerman 85B mass	$K^+ 2\pi^- X$
$\Delta(1232 P_{33})^0 2\gamma$	Augustin 88C mass	13 Christenson 85 mass
3.3 - 4.75 Arkhipov 88 -	Toki 87 mass	$K^+ \pi^+ \pi^- X$
$n \eta \pi^0$	Alde 86E mass	16 Karnaukhov 87 mass
40 Apel 85 ang, angp, mass, pwa	Toki 88B mass	360 Aguliarbenit 85C mass
Boutemour 89 ang, angp, mass, pwa	Prokoshkin 87B mass, pwa	$K^0 \bar{K}^0 \text{ charged}^- X$
Alde 88E ang, angp, mass, pwa	Prokoshkin 85 mass, pwa	40 Gabunia 90 a-dep, mult, p
Augustin 88C mass, pwa	Alde 90 mass	$K^+ K^- \pi^+ X$
Boutemour 88 mass, pwa	Prokoshkin 85 mass, pwa	360 Aguliarbenit 85C mass
Iddir 88 ang, angp, mass, pwa	$n 2\omega$	$K^+ K^- \pi^- X$
$p \eta \pi^-$	38 Alde 90 mass	360 Aguliarbenit 85C mass
4.5 Aleshin 86B cs	$n 2\eta'$	$K^+ K^0 \pi^- X$
6 Takamatsu 89 mass, pwa	40 Prokoshkin 85 mass, pwa	8 Chan 88 mass, pwa
$n \rho^0 \gamma$	$n 2\phi$	$K_S \pi^+ \pi^- X$
32.5 Bituykov 89 cs, mass	22 Augustin 88C mass, pwa	16 Karnaukhov 87 mass
$n \omega \pi^0$	$\Lambda K^0 \pi^0$	200 Becker 87 mass
8.95 Takamatsu 89 mass, pwa	4.35 - 4.85 Aleshin 85 cs	$\Lambda K^+ \pi^-$ (neutrals)
$p \omega \pi^-$	$\Lambda K^+ \pi^-$	4.35 - 4.85 Aleshin 85 cs
4.5 Aleshin 87D ang, angp, mass, p, pwa	4.35 - 4.85 Aleshin 85 cs	$p K^0 K^-$ (neutrals)
Aleshin 86B cs	$\Sigma^0 K^+ \pi^-$	4.35 - 4.85 Aleshin 85 cs
$n \phi \gamma$	4.35 - 4.85 Aleshin 85 cs	$K^*(892)^+ \text{ charged}^- \text{ neutral (neutrals)}$
32.5 Augustin 88C mass	$n K^+ K^-$	16 Karnaukhov 87 cs
Bituykov 88 ang, mass	32.5 Landsberg 88 ang, angp, mass	$K^*(892)^- \text{ charged}^+ \text{ neutral (neutrals)}$
Landsberg 87 mass, p	Landsberg 87 mass, p	16 Karnaukhov 87 cs
Prokoshkin 87B mass, p	$p K^0 K^-$	$\Sigma(1385 P_{13})^+ \text{ charged}^- \text{ neutral (neutrals)}$
$n \eta' \pi^0$	4.35 - 4.85 Aleshin 85 cs	16 Karnaukhov 87 cs
100 Boutemour 89 -		$\Sigma(1385 P_{13})^- \text{ charged}^+ \text{ neutral (neutrals)}$
		16 Karnaukhov 87 cs
		$n 2\gamma$ (γ 's)
		40 - 100 Prokoshkin 87 mass, p

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^- n \rightarrow \bar{\Lambda}$ mult[charged] (neutrals)

$\pi^- {}^3\text{He} \rightarrow p 2n$

$\pi^- n$	π^- nucleon	π^- deuteron
$\bar{\Lambda}$ mult[charged] (neutrals) 21 Stopa 87 cs, mult	$\Sigma(1385 P_{13})^-$ vee charged X 200 Mikocki 86 cs, p, pt	$\mu^- \mu^+ X$ 286 Bordalo 87B a-dep, pt Guanziroli 88 angp Richard 87 -
π^- nucleon	$\Xi(1385 P_{13})^+$ vee charged X 200 Mikocki 86 cs, p, pt	$2K_S X$ 21 Stopa 87 cs, mult
γX 4 Artykov 86B angp, cs, mult, p, pt	Ξ^- vee charged X 200 Mikocki 86 cs, p, pt	$\Lambda K_S X$ 21 Stopa 87 cs, mult
$\pi^0 X$ 4 Artykov 86B cs, mult, p, pt	Ξ^0 vee charged X 200 Mikocki 86 cs, p, pt	$\bar{\Lambda} K_S X$ 21 Stopa 87 cs, mult
$\pi^+ X$ 50 Bajramov 89 p	nucleon $\pi^+ 2\pi^-$ 200 Joyner 89 cs, mass	$\Lambda \bar{\Lambda} X$ 21 Stopa 87 cs, mult
$\pi^- X$ 50 Bajramov 89 p	nucleon $2\eta \pi^-$ 300 Augustin 88C ang, mass Alde 87 mass	K_S mult[charged] (neutrals) 21 Stopa 87 cs, mult
$D^*(2010)^+ X$ 250 Fitch 86 cs, p	nucleon $\pi^- 4\gamma$ 300 Augustin 88C mass	Λ mult[charged] (neutrals) 21 Stopa 87 cs, mult
$D^*(2010)^- X$ 250 Fitch 86 cs, p	nucleon $\pi^- 8\gamma$ 300 Alde 87C mass	$\bar{\Lambda}$ mult[charged] (neutrals) 21 Stopa 87 cs, mult
nucleon $\omega_3(2050)^-$ 200 Joyner 89 cs	π^- deuteron	$2n \gamma$ 0.0773 Stanislaus 89 p
$DD < K^+ \bar{K}^0 2\pi^- >$ nucleon 200 Mikocki 86 cs	dibaryon ? Stanislaus 89 -	deuteron $\pi^- \gamma$ 0 Bovet 84 amp, cs
$DD < K^0 \bar{K}^0 \pi^- \pi^+ >$ nucleon 200 Mikocki 86 cs	mult[charged] (neutrals) 38 Boos 87B ang, mult, p, pt	$p n \pi^-$ 0.25 - 0.65 Boschitz 86 angp, dme, pol 0.2537 Goetz 85 angp, p
$\mu^- \mu^+ X$ 80 Palestini 85 angp, mass, p, pt 252 Conway 89 angp, mass, p, pt	γX 0.0773 Stanislaus 89 p	$2K_S$ mult[charged] (neutrals) 21 Stopa 87 cs, mult
$D^0 \pi^+ X$ 250 Fitch 86 mass	$\pi^0 X$ 40 Amaglobeli 89 asym, pt Apokin 89 asym, pt Apokin 88C angp, asym, p	ΛK_S mult[charged] (neutrals) 21 Stopa 87 cs, mult
$\bar{D}^0 \pi^- X$ 250 Fitch 86 mass	ηX 40 Amaglobeli 89 asym, pt Apokin 89 asym, pt	$\bar{\Lambda} K_S$ mult[charged] (neutrals) 21 Stopa 87 cs, mult
bottom bottom X 320 Catanesi 88 cs	$K_S X$ 21 Stopa 87 cs, mult, p, pt	$\Lambda \bar{\Lambda}$ mult[charged] (neutrals) 21 Stopa 87 cs, mult
nucleon $\pi^0 \pi^-$ 300 Alde 88B p, pt	$p X$ 0.1947 - 0.5212 Arvieux 84C 1.84 - 2.63 Abramov 88 ang, angp, p	$2n \pi^+ \pi^-$ 0.2146 Ashery 88 angp, mass 0.4075 Parker 89 mass
nucleon $\eta \pi^-$ 300 Alde 88B p, pt	ΛX 21 Stopa 87 cs, mult, p, pol, pt	$\pi^- {}^3\text{H}$ 0.2445 - 0.3314 Pillai 88 angp
nucleon $\rho^0 \pi^-$ 200 Joyner 89 cs	38 Boos 87B -	$\pi^- {}^3\text{He}$ 0.4693 - 0.5985 Boswell 86 p
nucleon $\eta' \pi^-$ 300 Alde 88B p, pt	$\bar{\Lambda} X$ 21 Stopa 87 cs, mult, p, pt	deuteron n 0.1461 - 0.1731 Aniol 85 cs
nucleon $f_0(1240) \pi^-$ 200 Joyner 89 cs	deuteron π^- 0.143 - 0.256 Smith 87C angp, asym 0.2 - 1.2 Yokosawa 85 - 0.2189 - 0.4105 Yokosawa 85 -	${}^3\text{H} \pi^0$ 0 Backenstoss 85 cs
nucleon $f_0(1590) \pi^-$ 300 Augustin 88C Alde 87 cs, p	0.2236 - 0.4421 Yokosawa 85 -	${}^3\text{He} \pi^-$ 0.1922 - 0.3183 Marx 86 angp 0.2445 - 0.3314 Pillai 88 angp
nucleon $f_2(1720) \pi^-$ 300 Augustin 88C -	0.2248 - 0.4168 Boschitz 86 angp, dme, pol	${}^3\text{H} \eta$ 0.59 - 0.68 Peng 89 angp, p 0.68 Peng 87 angp, p
nucleon π^- meson ⁰ 300 Alde 87C p	0.2353 - 0.3701 Ungricht 85 angp, pol, pwa	$2\gamma X$ 0.59 - 0.68 Peng 89 mass
$K^+ 2\pi^- X$ 250 Fitch 86 mass	0.2422 Blankleider 84 - 0.3 - 1.2 Yokosawa 85C - 0.86 - 1.16 Abramov 89B angp - 0.98 - 3.09 Chuvilo 86 - 1.75 - 3.09 Abramov 87 angp Abramov 85 angp	$p n X$ < 0.2875 Redwine 86 cs
$K^- 2\pi^+ X$ 250 Fitch 86 mass	0.2146 Ashery 88 angp, cs	deuteron $n \gamma$ 0 Backenstoss 85 cs
$K^*(892)^+ \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt	dibaryon π^+ 0.2146 Ashery 88 angp, cs	$p 2n$ 0.1461 - 0.1731 Aniol 85 cs Backenstoss 85B angp, cs
$K^*(892)^- \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt	$2\gamma X$ 40 Amaglobeli 89 asym, mass Apokin 89 asym, mass	
$K_S \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt	$\mu^- \mu^+ X$ 140 - 286 Bordalo 87 a-dep, p	
$\Lambda \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt		
$\bar{\Lambda} \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt		
$\Sigma(1385 P_{13})^+ \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt		
$\Xi(1385 P_{13})^- \text{ vee charged } X$ 200 Mikocki 86 cs, p, pt		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^- \text{}^3\text{He} \rightarrow 3\text{nucleon}$ $\pi^- \text{Be} \rightarrow \text{Be } a_1(1260)^-$

$\pi^- \text{}^3\text{He}$	3nucleon 0.22	Backenstoss 85B			
			angp, cs		
$\pi^- \text{}^4\text{He}$	X	0.1283 - 0.4168	Marx 86	cs	
		0.2707	Marx 86	cs	
	inelastic	0.2707	Marx 86	cs	
	${}^4\text{He } \pi^-$	0.0853 - 0.2875	Marx 86	angp	
		0.1283 - 0.4168	Marx 86	cs	
		0.2707	Marx 86	cs	
	${}^3\text{H } p \pi^-$	0.2189 - 0.3183	Balestra 86	angp, cs	
		0.2605	Marx 86	ang, mass	
	$2p \ 2n \ \pi^-$	0.2189 - 0.3183	Balestra 86	angp, cs	
$\pi^- \text{He}$	$\pi^+ \text{X}$	0.2875 - 0.353	Gram 89	a-dep, cs	
	$\pi^- \text{X}$	0.4693 - 0.5985	Boswell 86	p	
$\pi^- \text{}^6\text{Li}$	$\pi^+ \text{X}$	0.2875 - 0.353	Gram 89	a-dep, cs	
	p X	0	Amelin 90	p	
		1.5	Burgov 87		
		5	Bayukov 85D	a-dep, angp, p	
			Gavrilov 85B	angp, p	
				a-dep, angp, p	
	n X	5	Bayukov 85D	angp, p	
			Gavrilov 85B	angp, p	
				a-dep, angp, p	
	deuteron X	0	Amelin 90	p	
		1.5	Burgov 87		
		5	Gavrilov 85B	a-dep, angp, p	
				a-dep, angp, p	
	${}^5\text{H } p$	0	Amelin 90	cs, mass	
	${}^4\text{H } \text{deuter-}$	0	Amelin 90	cs, mass	
	He p n π^-	0	Doerr 86	cs, p	
	${}^3\text{H } \text{deuteron } p \pi^-$	0	Doerr 86	cs, p	
	${}^3\text{He } \text{deuteron } n \pi^-$	0	Doerr 86	cs, p	
	${}^3\text{H } 2p \ n \ \pi^-$	0	Doerr 86	cs, p	
	2deuteron p n π^-	0	Doerr 86	cs, p	
	deuteron ${}^3p \ 2n \ \pi^-$	0	Doerr 86	cs, p	
	${}^3p \ 3n \ \pi^-$	0	Doerr 86	cs, p	
$\pi^- \text{Li}$	charged$^+$ X	40	Boos 88	a-dep, mult	
	mult[charged$^+$] X	40	Boos 88	a-dep, mult	
	mult[charged$^-$] X	40	Boos 88	a-dep, mult	
	$\pi^+ \text{X}$	1.5	F. 'klej 86	angp, p	
	grey X	40	Boos 88	a-dep, mult	
	mult[grey] X	40	Boos 88	a-dep, mult	
	X star	40	Boos 88	a-dep, cs	
	charged$^+$ X star	40	Boos 88	a-dep, mult	
	charged$^-$ X star	40	Boos 88	a-dep, mult	
	mult[charged$^+$] X star	40	Boos 88	a-dep, mult	
	mult[charged$^-$] X star	40	Boos 88	a-dep, mult	
	grey X star	40	Boos 88	a-dep, mult	
	mult[grey] X star	40	Boos 88	a-dep, mult	
$\pi^- \text{}^7\text{Li}$	X	0.163 - 0.2537	Marx 86	cs	
		0.2707	Marx 86	cs	
	inelastic	0.2707	Marx 86	cs	
	$\pi^+ \text{X}$	0.2875 - 0.353	Gram 89	a-dep, cs	
	p X	0	Amelin 90	p	
		5	Bayukov 85D	angp, p	
			Gavrilov 85B	angp, p	
				a-dep, angp, p	
	n X	5	Bayukov 85D	angp, p	
			Gavrilov 85B	angp, p	
				a-dep, angp, p	
	deuteron X	0	Amelin 90	p	
		5	Gavrilov 85B	a-dep, angp, p	
	${}^3\text{H } \text{X}$	0	Amelin 90	p	
	${}^4\text{H } {}^3\text{H}$	0	Amelin 90	cs, mass	
	${}^5\text{H } \text{deuteron}$	0	Amelin 90	cs, mass	
	${}^7\text{Li } \pi^-$	0.2707	Marx 86	cs	
$\pi^- \text{}^9\text{Be}$	${}^3\text{H}$	0	Gornov 87	mass	
	${}^5\text{H } {}^3\text{H } p$	0	Gornov 87	mass	
	${}^4\text{H } {}^3\text{H } \text{deuteron}$	0	Gornov 87	mass	
$\pi^- \text{Be}$	inelastic	1.26 - 2.5	Kuzichev 89	a-dep, cs	
	e$^+$ X	200	Palka 87B		
	e$^-$ X	200	Palka 87B		
	$\pi^+ \text{X}$	0.2875 - 0.353	Gram 89	a-dep, cs	
	$\rho^0 \text{X}$	300	Benayoun 87B	cs, pt	
	ϕX	100	Dijkstra 86D	cs, p	
		100 - 200	Dijkstra 86	mult, p, pt	
		300	Benayoun 87B	cs, pt	
	$f_2(1270) \text{X}$	300	Benayoun 87B	cs, pt	
	$\eta(1440) \text{X}$	300	Benayoun 87B	cs, pt	
	$f_2(1720) \text{X}$	300	Benayoun 87B	cs, pt	
	$\eta_c(1S) \text{X}$	85	Booth 86	ang, pwa	
	$J/\psi(1S) \text{X}$	125	Katsanevas 87	a-dep, cs, p, pt	
	$\chi_c(3455) \text{X}$	190	Bauer 85	cs	
	$\chi_{c1}(1P) \text{X}$	190	Bauer 85	cs	
	$\chi_{c2}(1P) \text{X}$	190	Bauer 85	cs	
	$D^0 \text{X}$	200	Grab 87		
			Palka 87		
			Bailey 85C		
	$D^0 \text{X}$	200	Palka 87		
	$D^0 \text{X} + D^- \text{X}$	200	Bailey 85C		
	$D^\pm \text{X}$	200	Bailey 85C		
	$D^+ \text{X}$	200	Palka 87		
			Palka 87B	cs, p	
	$D^- \text{X}$	200	Palka 87		
			Palka 87B	cs, p	
	$D^+ \text{X} + D^0 \text{X}$	200	Bailey 85C		
	$D^*(2010)^+ \text{X} + D^*(2010)^- \text{X}$	200	Bailey 85C		
	meson$^0 \text{X}$	85	Augustin 88C		
			Booth 85	mass	
	p X	0	Gornov 88	a-dep, p	
			Gornov 87B	a-dep, p	
			Gornov 86B	p	
		3	Vorobiev 85B	pol	
		5	Bayukov 85D	angp, p	
		40	Antipov 87	p	
	n X	5	Bayukov 85D	angp, p	
	deuteron X	0	Gornov 87B	a-dep, p	
			Gornov 86B	p	
	${}^3\text{He } \text{X}$	0	Gornov 87B	a-dep, p	
			Gornov 86B	p	
	${}^3\text{H } \text{X}$	0	Gornov 87B	a-dep, p	
			Gornov 86B	p	
	${}^4\text{He } \text{X}$	0	Gornov 87B	a-dep, p	
			Gornov 86B	p	
	Be $a_1(1260)^-$	40	Zajmidoroga 85	mass, pwa	

$\pi^- \text{Be} \rightarrow \mu^+ e^- X$ $\pi^- {}^{12}\text{C} \rightarrow 3p X$

$\pi^- \text{Be}$			$\pi^- \text{Be}$			$\pi^- \text{Be}$					
$\mu^+ e^- X$	200	Grab 87	mass	$D^*(2010)^+$ charmed-meson X	205	Mooney 89	cs	$K^- 2\pi^+ e^- X$		Bailey 85C	-
		Palka 87	mass					$K^+ 2\pi^- e^+ X + K^- 2\pi^+ e^- X$	200	Bailey 85C	-
$\mu^- e^+ X$	200	Grab 87	mass	charmed-meson charmed-meson X	200	Ginther 87	cs	$K^+ 2\pi^- e^- X + K^- 2\pi^+ e^+ X$	200	Bailey 85C	-
		Palka 87	mass								
$\mu^- \mu^+ X$	125	Katsanevas 87	a-dep, mass	$p \phi X$	100	Dijkstra 86C	mass	$2K^+ 2K^- X$	85	Augustin 88C	mass
					200	Dijkstra 86C	mass			Booth 86	mass
		Bauer 85	mass	$\bar{p} \phi X$	100	Dijkstra 86C	mass	$K^+ \pi^+ 2\pi^- e^+ X + K^- 2\pi^+ \pi^- e^- X$	200	Booth 85	mass
$\pi^+ \pi^- X$	300	Benayoun 87B	mass, pt		200	Dijkstra 86C	mass			Bailey 85C	-
ρ^0 charged X	300	Benayoun 86	cs, pt	$\text{Be } \pi^- \gamma$	40	Antipov 85	ang, angp, p	$K^+ \pi^+ 2\pi^- e^- X + K^- 2\pi^+ \pi^- e^+ X$	200	Bailey 85C	-
$\phi \pi^+ X$	100	Dijkstra 86C	mass	$\mu^- \mu^+ \gamma X$	190	Bauer 85	mass	$K^+ K^- 2\pi^+ 2\pi^- \mu^+ X$	200	Ginther 87	mass, p
	200	Dijkstra 86C	mass	$\pi^+ \pi^-$ charged X	300	Benayoun 86	mass, pt		205	Mooney 89	mass, p
$\phi \pi^- X$	100	Dijkstra 86C	mass	$\pi^+ 2\pi^- X$	40	Bellini 84	mass, pwa	$K^+ K^- 2\pi^+ 2\pi^- \mu^- X$	200	Ginther 87	mass, p
	200	Dijkstra 86C	mass						205	Mooney 89	mass, p
$2\phi X$	85	Augustin 88C	mass	$\phi \pi^- \mu^+ X$	200	Ginther 87	mass, p				
		Booth 86	ang, pwa	$\phi \pi^+ \mu^- X$	200	Ginther 87	mass, p				
		Augustin 85E	-								
		Booth 85	mass	$J/\psi(1S) \text{ charged}^+ \text{ charged}^- X$	225	Budd 85	mult, p	$\pi^- {}^{10}\text{Bor}$			
$J/\psi(1S) \gamma X$	190	Bauer 85	mass	$K^+ \pi^- e^+ X$	200	Palka 87	mass	$p X$	5	Bayukov 85D	angp, p
$\bar{D}(\text{unspec}) D(\text{unspec}) X$	200	Bailey 85C	-	$K^- \pi^+ e^- X$	200	Palka 87	mass			Gavrilov 85B	a-dep, angp, p
$D^0 \bar{D}^0 X$	200	Bailey 85	mass	$K^+ \pi^- e^+ X + K^- \pi^+ e^- X$	200	Bailey 85C	-	$n X$	5	Bayukov 85D	angp, p
$D^+ \bar{D}^0 X$	200	Bailey 85	mass	$K^+ \pi^- e^+ X + K^- \pi^+ e^- X$	200	Palka 87B	mass			Gavrilov 85B	a-dep, angp, p
$D^0 D^- X$	200	Bailey 85	mass					deuteron X	5	Gavrilov 85B	a-dep, angp, p
$D^+ D^- X$	200	Bailey 85	mass	$K^+ \pi^- e^- X + K^- \pi^+ e^+ X$	200	Bailey 85C	-				
$K^*(892)^0 e^- X$	200	Palka 87	mass	$K^- \pi^+ e^- X + K^- 2\pi^+ \pi^- e^- X$	200	Bailey 85C	-	$\pi^- {}^{11}\text{Bor}$			
				$K^+ K^- \pi^+ X$	100	Dijkstra 86C	mass	$p X$	5	Bayukov 85D	angp, p
$\bar{K}^*(892)^0 e^+ X$	200	Palka 87	mass		200	Dijkstra 86C	mass	$n X$	5	Bayukov 85D	angp, p
$K^*(892)^0 e^- X + \bar{K}^*(892)^0 e^+ X$	200	Palka 87B	mass	$K^+ K^- \pi^- X$	100	Dijkstra 86C	mass				
					200	Dijkstra 86C	mass	$\pi^- {}^{12}\text{C}$			
$K^+ \phi X$	100	Dijkstra 86C	mass	$K^+ 2K^- X$	100	Dijkstra 86C	mass	X	0.163 - 0.2537	Marx 86	cs
	200	Dijkstra 86C	mass		200	Dijkstra 86C	mass		0.2707	Marx 86	cs
$K^- \phi X$	100	Dijkstra 86C	mass	$2K^+ K^- X$	100	Dijkstra 86C	mass	inelastic	0.2707	Marx 86	cs
	200	Dijkstra 86C	mass		200	Dijkstra 86C	mass	$\pi^+ X$	5	Abdinov 84B	mult
$K^+ K^- X$	100 - 200	Dijkstra 86	ang, dme, mass	$K^+ K_S \pi^- X$	300	Benayoun 87B	mass, pt	$\pi^- X$	5 - 40	Bajramov 89	p
		Benayoun 87B	mass, pt						5	Abdinov 84B	mult
$K_S^0 \phi X$	100	Dijkstra 86C	mass	$K_S \pi^+ \pi^- X$	300	Benayoun 87B	mass, pt	$p X$	5	Abdinov 84B	angp, mult
	200	Dijkstra 86C	mass								
D^0 charmed-meson X	200	Ginther 87	cs	$K^+ K_S K^- X$	100	Dijkstra 86C	mass	tribarion X	?	Abdinov 86B	-
	205	Mooney 89	cs		200	Dijkstra 86C	mass	${}^{12}\text{C } \pi^-$	0.2707	Marx 86	cs
\bar{D}^0 charmed-meson X	200	Ginther 87	cs	$p K^+ K^- X$	100	Dijkstra 86C	mass	$e^- e^+ X$	0.2696	Alekseev 87B	angp, cs
	205	Mooney 89	cs		200	Dijkstra 86C	mass	$2p X$	5	Abdinov 84B	ang, mult
D_S^- charmed-meson X	200	Ginther 87	cs	$\bar{p} K^+ K^- X$	100	Dijkstra 86C	mass	$\pi^+ \text{ mult[grey] X}$	5 - 40	Bajramov 89	mult, p
					200	Dijkstra 86C	mass	$\pi^- \text{ mult[grey] X}$	5 - 40	Bajramov 89	mult, p
D_S^+ charmed-meson X	200	Ginther 87	cs	$\mu^- \mu^+$ charged ⁺ charged ⁻ X	225	Budd 85	mass	${}^{12}\text{C}^+ 2\pi^0$	39.1	Apokin 89B	angp, mass
$D^*(2010)^-$ charmed-meson X	200	Ginther 87	cs	$K^+ 2\pi^- e^+ X$	200	Bailey 85	mass	mult[charged] 2neutral (neutrals)	40	Angelov 89	col, p
	205	Mooney 89	cs					$3p X$	5	Abdinov 86B	ang, mass
$D^*(2010)^+$ charmed-meson X	200	Ginther 87	cs	$K^- 2\pi^+ e^- X$	200	Bailey 85	mass				

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^- {}^{12}\text{C} \rightarrow 2p (p's) X$ $\pi^- \text{C} \rightarrow \pi^+ \text{mult[charged]} X$

$\pi^- {}^{12}\text{C}$	$\pi^- \text{C}$	$\pi^- \text{C}$	$\pi^- \text{C}$
2p (p's) X	ω X	A X	
40 Allaberdin 87 angp, cor	38 Bannikov 89B cs	Fredriksson 87 mult	Fredriksson 87 mult
π^\pm mult[charged] 2neutral (neutrals)	40 Fredriksson 87 mult	deuteron X	Baldin 85B col, p
40 Angelov 89 col, p	η' X	0 Gornov 87B a-dep, p	Grishin 85B cs, p, pt
p mult[charged] 2neutral (neutrals)	38 Bannikov 89B cs	0.85 - 2.5 Gornov 86B angp, p	
40 Angelov 89 col, p	$f_0(975)$ X	1.5 Burgov 87 a-dep, angp, p	
$\pi^- \text{C}$	$J/\psi(1S)$ X	dibaryon X	
inelastic	38 Jani 87 cs, p, pt	5 Abdinov 86C -	
1.26 - 2.5 Kuzichev 89 a-dep, cs	530 Kartik 90 a-dep, cs, p, pt	$^3\text{He X}$	
charged X	De 89 a-dep, cs, p, pt	0 Gornov 87B a-dep, p	
38 Barwolff 85 mult	$X_{c1}(1P)$ X	Gornov 86B :	
40 Baldin 85B col, p	38 Jani 87 -	$^3\text{H X}$	
charged+ X	$X_{c2}(1P)$ X	0 Gornov 87B a-dep, p	
40 Boos 88 a-dep, mult	38 Jani 87 -	Gornov 86B p	
charged- X	$\psi(2S)$ X	$^4\text{He X}$	
38 Barwolff 85 mult	38 Jani 87 cs	0 Gornov 87B a-dep, p	
40 Gabunia 90 a-dep, mult, p	$\chi(\text{unspec}) X$	Gornov 86B p	
Boos 88 a-dep, mult	530 De 89 -	mult[p] X	
mult[charged] X	mult[γ] X	4 Istmatova 85B cs	Istmatova 85B cs
40 Baatar 87B cs, mult, p, pt	4 - 40 Istmatova 85 mult	5 Abdinov 87 col	Vorobiev 85 mult
Baldin 86 col	mult[π^\pm] X	40 Baldin 88C angp, cor	Bannikov 89 mult
mult[charged+] X	5 Abdinov 87 col	Armutlijsky 87C col, mult	
40 Boos 88 a-dep, mult	mult[π^-] X	grey X	
mult[charged-] X	4 Istmatova 85B cs	40 Boos 88 a-dep, mult	
40 Boos 88 a-dep, mult	40 Baatar 90B mult	jet X	
mult[charged] (neutrals)	40 Gabunia 89 a-dep, mult	40 Baldin 88B ang, p	
38 Boos 87B ang, mult, p, pt	K^0 X	Baldin 85 angp, p	
40 Baatar 88 cor, mass, mult, p, pt	40 K_S X	Baldin 85B col, p	
γ X	40 p X	Grishin 85B cs, p, pt	
4 Artykov 86B angp, cs, mult, p, pt	0 Gornov 88 a-dep, p	mult[grey] X	
40 Beshliu 85 p	0.6 Gornov 87B a-dep, p	40 mult[hadron] X	
200 Badier 85F p	0.85 - 2.5 Golubeva 89 angp	5.7 - 205 Baldin 87 col, p	
Bardadinotwi 85 p, pt	1.4 - 5 Bayukov 85C a-dep, angp, p	Baldin 86B col	
π^0 X	1.5 Bayukov 85F a-dep, p	mult[jet] X	
1.1 40 Golubeva 90 p	Burgov 87 a-dep, p	40 Baldin 86 col	
4 Artykov 86B cs, mult, p, pt	3 Vorobiev 85B a-dep, angp, p	mult[shower] X	
200 Badier 85E cs, p, pt	5 Gulkanyan 87 angp, cs, p	4 Istmatova 85B cs	
Badier 85F cs, p, pt	Vorobiev 86B angp, p	X star	
Bardadinotwi 85 p, pt	Abreu 85 a-dep, p, pt	40 Boos 88 a-dep, cs	
π^+ X	30 Vorobiev 86B angp, cs, p	$\text{C}^* \pi^0$	
0.2875 - 0.353 Gram 89 a-dep, cs	38 Bayukov 85D angp, p	39.1 Apokin 86C angp, cs	
1.4 - 5 Bayukov 85E a-dep, angp, p	40 Barwolff 85 angp, p, pt	$\text{C}^* \eta$	
1.5 Buklej 86 angp, p	Bannikov 89 a-dep, angp, cs, mult	39.1 Apokin 86C angp, cs	
5 Vorobiev 89B a-dep, angp	Armutlijsky 87C col, mult, angp	$\text{C}^* \omega$	
Vorobiev 38D a-dep, angp	Kopylova 86B col, mult, angp	39.1 Apokin 86C angp, cs	
40 Ananieva 86 mult, p, pt	Albini 85 a-dep, angp, p	$\text{C}^* \eta'$	
Baatar 85 angp, mult, p	Baatar 85 angp, mult, p	39.1 Apokin 86C angp, cs	
200 Bardadinotwi 85 p, pt	Vishnyakov 85 angp	$\text{C}^* \alpha_1(1260)^-$	
$\pi^- \text{X}$	Bardadinotwi 85 p, pt	40 Zajmidoroga 85 mass, pwa	
1.4 - 5 Bayukov 85E a-dep, angp, p	\bar{p} X	$\text{C}^* f_2(1270)$	
1.5 Burgov 85 angp, p	30 Abreu 85 a-dep, p, pt	39.1 Apokin 86C angp, cs	
4 Istmatova 85B mult	Bayukov 85C a-dep, angp, p	charged- charged X	
9.4 Agakishiev 87C angp	Bayukov 85F a-dep, p	38 Barwolff 85 angp, mult	
40 Baatar 90B angp, et, p, pt	Bayukov 85D angp, p	2γ X	
Baatar 89B angp, et, p	Gabunia 90 a-dep, mult, p	200 Badier 85C cs, pt	
Agakishiev 87C angp	nucleon X	Bardadinotwi 85 cs, p, pt	
Kopylova 86B angp	40 A X	π^\pm mult[charged] X	
Baatar 85 angp, p, pt	1.2 - 5 Vorobiev 89C angp	40 Baatar 88B mass, mult, p, pt	
Bardadinotwi 85 p, pt	Vorobiev 87B a-dep, angp	π^+ mult[charged] X	
η X	3 Vorobiev 88E p, pol	5 Bajramov 86 mult, p, pt	
38 Bannikov 89B cs	38 Boos 87B a-dep, mult		
ρ^0 X	40 Gabunia 89 a-dep, mult		
38 Bannikov 89B cs			
40 Fredriksson 87 mult			

$\pi^- C \rightarrow \pi^+$ mult[charged] X $\pi^- C \rightarrow p 2\pi^- X$

$\pi^- C$	$\pi^- C$	$\pi^- C$
π^+ mult[charged] X 40 Baatar 87 angp, mass, mult, p, pt	p mult[π^+] X 5 Asaturyan 86 ang, mult, p	p (p') X 40 Angelov 88 angp, col
π^- mult[charged] X 5 Bajramov 86 mult, p, pt	p mult[π^\pm] X 5 Asaturyan 86 ang, mult, p	n mult[p] X 4 Istmatova 85B mult
40 Baatar 89B angp, p	p mult[π^-] X 5 Asaturyan 86 ang, mult, p	$\Delta(1232 P_{33})^{++}$ jet X 40 Baldin 85 ang, p
40 Baatar 87 angp, mass, mult, p, pt	Λ charged X 38 Barwolf 88 a-dep, cs, mult, p, pt	Λ jet X 40 Baldin 85 ang, p
$\mu^- \mu^+$ X 38 Bannikov 89B ang, mass, pt	Λ charged $^-$ X 40 Gabunia 90 a-dep, mult, p	mult[p] shower X 4 Istmatova 85B mult
$2\pi^0$ X 40 Agakishiev 87B cor	$\bar{\Lambda}$ charged X 38 Barwolf 88 a-dep, cs, mult	grey X star 40 Boos 88 a-dep, mult
π^+ π^\pm X 40 Baatar 85 angp, mult, p	nucleon K^0 X 40 Gabunia 90 a-dep, mult, p	mult[grey] X star 40 Boos 88 a-dep, mult
π^- π^\pm X 9.4 Agakishiev 87C angp	$p \bar{p}$ X 30 Beusch 86 a-dep, ang, mass, p, pt	shower mult[shower] X 40 Aliev 89 angp, cor, mult
40 Agakishiev 87C angp	$2p$ X 4 - 40 Zielinsky 88 cs, mass	π mult[charged] (neutrals) 40 Baatar 89 angp, mass, mult, pt
40 Baatar 85 angp, mult, p	4 - 40 Azimov 84B mass	mult[π] mult[charged] (neutrals) 40 Baatar 88 cor, mass, mult, p, pt
$2\pi^+$ X 5 Vorobiev 89B angp, cor, pt	5 Zielinsky 84C cs, mass	p mult[charged] (neutrals) 40 Baatar 89 angp, mass, mult, pt
40 Vorobiev 88D angp, cor	40 Arakelyan 87 angp, cs, mass, p	mult[p] mult[charged] (neutrals) 40 Baatar 88 cor, mass, mult, p, pt
40 Agakishiev 87B cor	38 Gulkanyan 87 angp, cs, p	$2\pi^-$ fragt 4.7 Agababyan 85B angp, cs, mass, p
π^+ π^- X 38 Barwolf 88 mass	40 Abdinov 86C mass	$C \pi^- \gamma$ 40 Antipov 85 ang, angp, p
$J/\psi(1S) \gamma$ X 38 Jani 87 mass, p, pt	50 Abdinov 86D ang, mass	$C \pi^0 \pi^-$ 40 Antipov 86 angp, mass
530 De 89 mass	40 Agakishiev 87B cor	Antipov 86B angp, p
π^0 mult[π^-] X 4 Istmatova 85B mult	40 Baatar 85 angp, mult, p	Antipov 85B cs
π^- mult[π^-] X 40 Aliev 89 angp, cor, mult	nucleon Λ X 40 Gabunia 90 a-dep, mult, p	Antipov 85C angp, mass
K^0 charged $^-$ X 40 Gabunia 90 a-dep, mult, p	mult[p] charged $^-$ X 40 Bannikov 89 angp, mult	2hadron (hadrons) 40 Baldin 88B col
K_S charged X 38 Barwolf 88 a-dep, cs, mult, p, pt	mult[p] π^0 X 4 Istmatova 85B mult	$\mu^- \mu^+ \gamma$ X 38 Bannikov 89B ang, mass, pt
p charged X 38 Barwolf 85 angp, mult	mult[p] π^- X 4 Istmatova 85B mult	530 De 89 mass
p charged $^+$ X 5 Arakelyan 87 angp, cs, mass, p	hadron mult[charged] X 40 Baatar 87B angp, cs, mult, p, pt	$2\pi^0 \pi X$ 40 Agakishiev 87B cor
p charged $^-$ X 40 Bannikov 89 angp, mult	charged $^+$ X star 40 Boos 88 a-dep, mult	$\pi^+ 2\pi^-$ X 40 Bellini 84 mass, pwa
p mult[charged] X 40 Baatar 87 angp, mass, mult, p, pt	charged $^-$ X star 40 Boos 88 a-dep, mult	$2\pi^+ \pi X$ 40 Agakishiev 87B cor
$p \pi^\pm$ X 40 Baatar 85 angp, mult, p	mult[charged $^+$] X star 40 Boos 88 a-dep, mult	$2\pi^- \pi X$ 40 Agakishiev 87B cor
$p \pi^+$ X 40 Anoshin 87 angp, mass, p, pt	mult[charged $^-$] X star 40 Boos 88 a-dep, mult	$J/\psi(1S) \pi^+ \pi^-$ X 38 Jani 87 mass
$p \pi^-$ X 3 Vorobiev 88E ang, mass, p	π^0 shower X 40 Fredriksson 87 cor, mult	$K^0 \bar{K}^{*0}$ charged $^-$ X 40 Gabunia 90 a-dep, mult, p
5 Arakelyan 87 angp, cs, mass, p	π^- jet X 40 Baldin 85 ang, p	$p 2\pi^0$ X 40 Agakishiev 87B cor
9.4 Agakishiev 87C angp	π^+ mult[grey] X 40 Artykov 90 mult, p, pt	$p \pi^+ \pi^\pm$ X 40 Baatar 85 angp, mult, p
38 Barwolf 88 mass	π^- mult[grey] X 40 Artykov 90 mult, p, pt	$p \pi^- \pi^\pm$ X 40 Baatar 85 angp, mult, p
40 Agakishiev 87C angp	ρ^0 jet X 40 Baldin 85 ang, p	$p 2\pi^+ X$ 40 Agakishiev 87B cor
40 Anoshin 87 angp, mass, p, pt	K_S jet X 40 Baldin 85 ang, p	$p 2\pi^- X$ 40 Agakishiev 87B cor
40 Baatar 85 angp, mult, p		
$\bar{p} \pi^+$ X 38 Barwolf 88 mass		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^- C \rightarrow \text{nucleon } K^0 \bar{K}^0 X$ $\pi^- Si \rightarrow {}^3H X$

$\pi^- C$		$\pi^- Ne$		$\pi^- Al$	
nucleon $K^0 \bar{K}^0 X$		$N(1440 P_{11}) X$		$Al^* f_2(1270)$	
40 Gabunia 90	a-dep, mult, p	6.2 Amelin 87		39.1 Apokin 86D	angp, cs
$2p \gamma X$		$\Delta(1620 S_{31})^- X$		$\mu^- \mu^+ X$	
40 Beshliu 85	mass	6.2 Amelin 87		320 Cobbaert 88B	a-dep, mass, p
$2p \pi^\pm X$		$\Delta(1700 D_{33})^- X$		$J/\psi(1S) \gamma X$	
40 Baatar 85	angp, mult, p	6.2 Amelin 87		530 De 89	a-dep, cs, mass, p
$2p \pi^+ X$		baryon X		$p \pi^- X$	
5 Gulkanyan 87	angp, cs, p	$\Delta(1232 P_{33}) X$		3 Vorobiev 88E	ang, mass, p
$2p \pi X$		6.2 Amelin 87		Vorobiev 86	ang, mass
40 Agakishiev 87B	cor	$2p X$		$p \bar{p} X$	
$3p X$		6.2 Zielinsky 88	cs, mass	30 Beusch 86	a-dep, ang, mass, p, pt
$4-40$	mass	Amelin 87B	ang, mass	$2p X$	
mult[p] $\pi^+ \pi^-$ fragt		Amelin 86	ang, mass	2.5 Bayukov 85	cor
5 Abdinov 86	mass, p	mult[p] $\pi^\pm X$		$Al \pi^- \gamma$	
$4p X$		10.5-200 Fredriksson 87	cor, mult	40 Antipov 85	ang, angp, p
$4-40$	mass	mult[p] mult[π^+] mult[π^-] X		$Al \pi^0 \pi^-$	
(p's) $2\pi^- (\gamma's)$ fragt		6.2 Amelin 87	angp, mass	40 Antipov 86	angp, mass
4.7 Agabayyan 85B	cs, mass	$\pi^- {}^{24}Mg$		Antipov 86B	angp, p
		(blacks) mult[grey] mult[shower]		Antipov 85B	cs
$\pi^- {}^{14}C$		(neutrals)		Antipov 85C	angp, mass
${}^{14}C \pi^-$		100 Biswas 86	cs	$\mu^- \mu^+ \gamma X$	
0.1283 Mishra 85	angp	320 Biswas 86	cs	530 De 89	mass
${}^{14}C \pi^- \gamma$		$\pi^- Al$		$\pi^+ 2\pi^- X$	
0.2696 Joltkamp 85		X		40 Bellini 84	mass, pwa
$\pi^- {}^{15}N$		0.2707 Marx 86	cs	$\pi^- {}^{27}Al$	
Nit* π^-		inelastic		${}^{24}Na$ 3nucleon	
0.2696 Seestrommorr 85	angp	0.2707 Marx 86	cs	0.1283-0.6242	
${}^{15}N \pi^- \gamma$		1.26-2.5 Kuzichev 89	a-dep, cs	Dropecky 86	cs
0.2696 Seestrommorr 85	angp	$\mu^+ X$		${}^{18}F$ 9nucleon	
$\pi^- {}^{16}O$		320 Cobbaert 87B	a-dep, cs, p	0.1283-0.6242	
$\pi^+ X$		$\mu^- X$		Dropecky 86	cs
0.2189-0.3851 Wood 85	angp, cs, p	320 Cobbaert 87B	a-dep, cs, p	$\pi^- Si$	
$\pi^- X$		$\pi^0 X$		$D^0 X$	
0.3583 Redwine 86	p	1.1 Golubeva 90	p	200 Barlag 88	cs, p, pt
${}^{16}N \pi p \pi^-$		$\pi^+ X$		$\bar{D}^0 X$	
0.353 Redwine 86	angp, p	40 Ananiaeva 86	mult, p, pt	200 Barlag 88	cs, p, pt
${}^{16}N \pi p \pi^- \gamma$		$J/\psi(1S) X$		$D^+ X$	
0.353 Redwine 86	angp, p	530 Kartik 90	a-dep, cs, p, pt	200 Barlag 88	cs, p, pt
$\pi^- O$		$p X$		$D^- X$	
$\pi^+ X$		30 Abreu 85	a-dep, p, pt	200 Barlag 88	cs, p, pt
0.2875-0.353 Gram 89	a-dep, cs	$\bar{p} X$		200 Barlag 87	cs, p, pt
$p X$		30 Abreu 85	a-dep, p, pt	$D^- X$	
1.5 Burgov 87	a-dep, angp, p	ΛX		200 Barlag 88	cs, p, pt
deuteron X		1.2-5 Vorobiev 89C	angp	$D_5^- X$	
1.5 Burgov 87	a-dep, angp, p	Vorobiev 87B	a-dep, angp	200 Barlag 88	cs, p, pt
$\pi^- {}^{18}O$		3 Vorobiev 88E	p, pol	$D_5^+ X$	
$\pi^- X$		Vorobiev 86		200 Barlag 88	cs, p, pt
0.3583 Redwine 86	p	charm X		$D^*(2010)^+ X$	
$\pi^- F$		320 Cobbaert 87B	a-dep	200 Barlag 88	cs, p, pt
$p X$		charm X		$D^*(2010)^- X$	
5 Bayukov 85D	angp, p	$Al^* \pi^0$		200 Barlag 88	cs, p, pt
$n X$		39.1 Apokin 86D	angp, cs	$p X$	
5 Bayukov 85D	angp, p	$Al \pi^-$		0 Gornov 88	a-dep, p
$\pi^- Ne$		0.2707 Marx 86	cs	Gornov 87B	a-dep, p
$K^0 X$		$Al^* \eta$		Gornov 86B	p
10.5 Fredriksson 87	mult	39.1 Apokin 86D	angp, cs	deuteron X	
$p X$		$Al^* \omega$		0 Gornov 87B	a-dep, p
30 Tkaczyk 86	p, pt	39.1 Apokin 86D	angp, cs	${}^3He X$	
$\bar{n} X$		$Al^* \eta'$		0 Gornov 87B	a-dep, p
200 Fredriksson 87	mult	39.1 Apokin 86D	angp, cs	${}^3H X$	
		$Al \alpha_1(1260)^-$		0 Gornov 87B	a-dep, p
		40 Zajmidoroga 85	in, mass, pwa	0 Gornov 86B	p

π^- Si \rightarrow 4 He X

π^- Cu \rightarrow n X

<p>π^- Si</p> <p>4He X 0 Gornov 87B a-dep, p Gornov 86B</p> <p>DD $< \pi^+ 2\pi^- >$ Si 40 Vegni 86 angp, mass, pwa</p> <p>Si $a_1(1260)^-$ 40 Zajmidoroga 85 mass, pwa</p> <p>$\pi^+ 2\pi^-$ X 40 Bellini 84 mass, pwa</p> <p>24Na 3nucleon 0.1283 - 0.6242 Dropecky 86 cs</p> <p>$K^+ K^- 2\pi^+ 2\pi^-$ X 200 Barlag 88 mass</p> <p>18F1 9nucleon 0.1283 - 0.6242 Dropecky 86 cs</p>	<p>π^- Ti</p> <p>Ti $a_1(1260)^-$ 40 Zajmidoroga 85 mass, pwa</p> <p>$\pi^+ 2\pi^-$ X 40 Bellini 84 mass, pwa</p> <p>$\pi^- ^{48}$Ca</p> <p>47KK p π^- 0.1947 - 0.4168 Ohkubo 85 cs, p</p> <p>47Ca n π^- 0.1947 - 0.4168 Ohkubo 85 cs, p</p> <p>π^- Fe</p> <p>inelastic 1.26 - 2.5 Kuzichev 89 a-dep, cs</p> <p>μ^+ X 320 Cobbaert 87B a-dep, cs, p</p> <p>μ^- X 320 Cobbaert 87B a-dep, cs, p</p> <p>charm X 320 Cobbaert 87B a-dep</p> <p>charm X 320 Cobbaert 87B a-dep</p> <p>$\mu^- \mu^+$ X 320 Cobbaert 88B a-dep, mass, p</p> <p>Fe $\pi^- \gamma$ 40 Antipov 85 ang, angp, p</p> <p>Fe $\pi^0 \pi^-$ 40 Antipov 86 angp, mass Antipov 86B angp, p Antipov 85B cs Antipov 85C angp, mass</p>	<p>π^- Cu</p> <p>mult[charged$^+$] X 40 Boos 88 a-dep, mult</p> <p>mult[charged$^-$] X 40 Boos 88 a-dep, mult</p> <p>π^+ X 1.4 - 5 Bayukov 85E a-dep, angp, p 1.5 Buklej 86 angp, p 40 Ananieva 86 mult, p, pt</p> <p>π^- X 1.4 - 5 Bayukov 85E a-dep, angp, p</p> <p>J/$\psi(1S)$ X 125 Katsanevas 87 a-dep, cs, p, pt 530 Kartik 90 a-dep, cs, p, pt</p> <p>χ(unspec) X 530 De 89 -</p> <p>D^0 X 230 Barlag 90B - Barlag 90C p Barlag 89B p Barlag 88C p Barlag 88D angp, cs, p, pt</p> <p>\bar{D}^0 X 230 Barlag 88C - Barlag 88D angp, cs, p, pt</p> <p>D^+ X 230 Barlag 90B - Barlag 90C p Barlag 88C p Barlag 88D angp, cs, p, pt</p> <p>D^- X 230 Barlag 88C - Barlag 88D angp, cs, p, pt</p> <p>D_s^- X 230 Barlag 88C - Barlag 88D angp, cs, p, pt</p> <p>D_s^+ X 230 Barlag 90B - Barlag 90C p Barlag 88C p Barlag 88D angp, cs, p, pt</p> <p>K^0 X 40 Gabunia 89 a-dep, mult</p> <p>p X 0 Gornov 88 a-dep, p Gornov 87B a-dep, p Gornov 86B p Golubeva 89 angp Bayukov 85C a-dep, angp, p 1.5 Bayukov 85F a-dep, p Burgov 87 a-dep, angp, p 5 Bayukov 85D angp, p 30 Abreu 85 a-dep, p, pt 38 Barwolf 85 mult 40 Bannikov 89 a-dep, angp, cs, mult Albini 85 a-dep, angp, p Vishnyakov 85 angp</p> <p>\bar{p} X 30 Abreu 85 a-dep, p, pt</p> <p>n X 1.4 - 5 Bayukov 85C a-dep, angp, p 5 Bayukov 85D angp, p</p>
<p>π^- S</p> <p>charged$^+$ X 40 Boos 88 a-dep, mult</p> <p>charged$^-$ X 40 Boos 88 a-dep, mult</p> <p>mult[charged$^+$] X 40 Boos 88 a-dep, mult</p> <p>mult[charged$^-$] X 40 Boos 88 a-dep, mult</p> <p>grey X 40 Boos 88 a-dep, mult</p> <p>mult[grey] X 40 Boos 88 a-dep, mult</p> <p>X star 40 Boos 88 a-dep, cs</p> <p>charged$^+$ X star 40 Boos 88 a-dep, mult</p> <p>charged$^-$ X star 40 Boos 88 a-dep, mult</p> <p>mult[charged$^+$] X star 40 Boos 88 a-dep, mult</p> <p>mult[charged$^-$] X star 40 Boos 88 a-dep, mult</p> <p>grey X star 40 Boos 88 a-dep, mult</p> <p>mult[grey] X star 40 Boos 88 a-dep, mult</p>	<p>π^- Ni</p> <p>p X 5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p</p> <p>n X 5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p</p> <p>deuteron X 5 Gavrilov 85B a-dep, angp, p</p>	<p>π^- Cl</p> <p>χ(unspec) X 530 De 89 -</p>
<p>π^- 40Ar</p> <p>40Ar π^- 0.2875 Germond 85C angp</p>	<p>π^- Cu</p> <p>X 0.2707 Marx 86 cs</p> <p>inelastic 0.2707 Marx 86 cs 1.26 - 2.5 Kuzichev 89 a-dep, cs</p> <p>charged$^+$ X 38 Barwolf 85 mult</p> <p>charged$^+$ X 40 Boos 88 a-dep, mult</p> <p>charged$^-$ X 38 Barwolf 85 mult 40 Gabunia 90 a-dep, mult, p Boos 88 a-dep, mult</p>	<p>π^- 40Ca</p> <p>π^+ X 0.2189 - 0.3851 Wood 85 angp, cs, p</p> <p>Ca$^+$ π^- 0.2306 Ullmann 85 angp</p> <p>40Ca $\pi^- \gamma$ 0.2306 Ullmann 85 angp</p>
<p>π^- Ca</p> <p>π^+ X 0.2875 - 0.353 Gram 89 a-dep, cs</p>	<p>π^- 46Sc</p> <p>44Ca p π^- 0.1947 - 0.4168 Ohkubo 85 cs, p</p>	<p>π^- 40Ca</p> <p>π^+ X 1.4 - 5 Bayukov 85C a-dep, angp, p 5 Bayukov 85D angp, p</p>

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^- \text{Cu} \rightarrow \text{nucleon X}$ $\pi^- \text{Cu} \rightarrow \text{Cu} \pi^- \mu^- \mu^+$

$\pi^- \text{Cu}$	$\pi^- \text{Cu}$	$\pi^- \text{Cu}$
nucleon X		
40	Gabunia 90	charged⁻ charged X
	a-dep, mult, p	38 Barwolff 85 angp, mult
$\Lambda_c^+ \text{X}$		2charged X
230	Barlag 90B	38 Barwolff 85 angp, mult
	Barlag 90C	$\mu^- \mu^+ \text{X}$
	Barlag 90D	125 Katsanevas 87
	Klein 89C	a-dep, mass
	Barlag 88B	$\pi^+ \pi^- \text{X}$
	Barlag 88C	38 Barwolff 88 mass
	Barlag 88D	$J/\psi(1S) \gamma \text{X}$
	angp, cs, p, pt	530 De 89
	Barlag 86	a-dep, cs, mass, p
$\bar{\Lambda}_c^- \text{X}$		K^0 charged⁻ X
230	Barlag 90C	40 Gabunia 90
	Barlag 90D	a-dep, mult, p
	Barlag 88C	$K^+ \pi^- \text{X}$
	Barlag 88D	230 Barlag 88D mass
	angp, cs, p, pt	$K^- \pi^+ \text{X}$
	Barlag 86	230 Barlag 90B
$\Xi_c(2460) \text{X}$		Barlag 88D mass
230	Klein 89C	mass
$\Xi_c(2460)^+ \text{X}$		$K^0 \phi \text{X}$
230	Barlag 89C	230 Barlag 88C mass
$\Xi_c(2460)^0 \text{X}$		$\bar{K}^0 \phi \text{X}$
230	Barlag 90	230 Barlag 88C mass
ΛX		K_S charged X
1.2 - 5	Vorobiev 89C	38 Barwolff 88
	Vorobiev 87B	a-dep, cs, mult, p, pt
3	Vorobiev 88E	mult[kaon] mult[π] X
40	Gabunia 89	230 Barlag 89B mass
deuteron X		p charged X
0	Gornov 87B	38 Barwolff 85 angp, mult
	Gornov 86B	p charged⁻ X
	Burgov 87	40 Bannikov 89 angp, mult
1.5	a-dep, angp, p	p $\pi^- \text{X}$
$^3\text{He X}$		3 Vorobiev 88E
0	Gornov 87B	ang, mass, p
	Gornov 86B	mass
$^3\text{H X}$		$\bar{p} \pi^+ \text{X}$
0	Gornov 87B	38 Barwolff 88 mass
	Gornov 86B	38 Barwolff 88 mass
$^4\text{He X}$		p ϕX
0	Gornov 87B	230 Barlag 88C mass
	Gornov 86B	$\bar{p} \phi \text{X}$
	230 Barlag 88C mass	
mult[p] X		Λ charged X
40	Bannikov 89	38 Barwolff 88
grey X		a-dep, cs, mult, p, pt
40	Boos 88	Λ charged⁻ X
mult[grey] X		40 Gabunia 90
40	Boos 88	a-dep, mult, p
X star		$\bar{\Lambda}$ charged X
40	Boos 88	38 Barwolff 88
$\text{Cu}^+ \pi^0$		a-dep, cs, mult
39.1	Apokin 86D	nucleon $K^0 \text{X}$
$\text{Cu} \pi^-$		40 Gabunia 90
0.2707	Marx 86	a-dep, mult, p
$\text{Cu}^+ \eta$		$\Lambda_c^+ K^- \text{X}$
39.1	Apokin 86D	230 Barlag 90 mass
$\text{Cu} \rho^-$		p $\bar{p} \text{X}$
200	Capraro 87	30 Beusch 86
$\text{Cu}^+ \omega$		a-dep, ang, mass, p, pt
39.1	Apokin 86D	2p X
$\text{Cu}^+ \eta'$		2.5 Bayukov 85
39.1	Apokin 86D	cor
$\text{Cu} \alpha_1(1260)^-$		nucleon ΛX
40	Zajmidoroga 85	40 Gabunia 90
	mass, pwa	a-dep, mult, p
$\text{Cu}^+ f_2(1270)$		mult[p] charged⁻ X
39.1	Apokin 86D	40 Bannikov 89 angp, mult
$\text{Cu} \pi_2(1670)^-$		charged⁺ X star
50	Antipov 86C	40 Boos 88
	cs, pt	a-dep, mult
		charged⁻ X star
		40 Boos 88
		a-dep, mult
		mult[charged⁺] X star
		40 Boos 88
		a-dep, mult
		mult[charged⁻] X star
		40 Boos 88
		a-dep, mult
		grey X star
		40 Boos 88
		a-dep, mult
		mult[grey] X star
		40 Boos 88
		a-dep, mult
		$\text{Cu} \pi^- \gamma$
		40 Antipov 85
		ang, angp, p
		$\text{Cu} \rho^0 \pi^-$
		50 Antipov 88B
		Antipov 86C
		ang, mass, pt, pwa
		?
		Antipov 89
		Antipov 88
		$\mu^- \mu^+ \gamma \text{X}$
		530 De 89
		mass
		$\pi^+ 2\pi^- \text{X}$
		40 Bellini 84
		mass, pwa
		$K^+ 2\pi^- \text{X}$
		230 Barlag 88D
		mass
		$K^- 2\pi^+ \text{X}$
		230 Barlag 90B
		Barlag 88D
		mass
		$K^0 \pi^+ \pi^- \text{X}$
		230 Barlag 88C
		mass
		$\bar{K}^0 \pi^+ \pi^- \text{X}$
		230 Barlag 88C
		mass
		$K^0 \bar{K}^0$ charged⁻ X
		40 Gabunia 90
		a-dep, mult, p
		$K^+ K^- \pi^+ \text{X}$
		230 Barlag 90B
		Barlag 88D
		mass
		$K^+ K^- \pi^- \text{X}$
		230 Barlag 88D
		mass
		$K^+ \bar{K}^0 \pi^- \text{X}$
		230 Barlag 88C
		mass
		$K^0 K^- \pi^+ \text{X}$
		230 Barlag 88C
		mass
		p $K^- \pi^+ \text{X}$
		230 Barlag 90B
		Barlag 90C
		angp, mass, p
		Barlag 90D
		angp, mass, p
		Barlag 88B
		mass
		Barlag 88C
		mass
		Barlag 88D
		mass
		Barlag 86
		angp, mass, p
		$\bar{p} K^+ \pi^- \text{X}$
		230 Barlag 90C
		angp, mass, p
		Barlag 90D
		angp, mass, p
		Barlag 88C
		mass
		Barlag 88D
		mass
		Barlag 86
		angp, mass, p
		$\Xi^- 2\pi^+ \text{X}$
		230 Barlag 89
		Barlag 89C
		mass
		mass
		$\Sigma^+ K^- \pi^+ \text{X}$
		230 Barlag 89
		Barlag 89C
		mass
		mass
		nucleon $K^0 \bar{K}^0 \text{X}$
		40 Gabunia 90
		a-dep, mult, p
		p $\bar{K}^*(892)^0 K^- \text{X}$
		Barlag 90
		mass
		$\text{Cu} \pi^- \mu^- \mu^+$
		50 Antipov 89
		cs, mass, pwa

$\pi^- \text{Cu} \rightarrow \text{Cu} \pi^- \mu^- \mu^+$ $\pi^- \text{Xe} \rightarrow p 0\pi \text{X}$

$\pi^- \text{Cu}$		$\pi^- \text{Ag}$		$\pi^- {}^{124}\text{Sn}$	
$\text{Cu} \pi^- \mu^- \mu^+$	Antipov 88 cs, mass, p Antipov 88B cs Antipov 86C ang, mass, pt, pwa	$\pi^+ 2\pi^- \text{X}$ 40 Bellini 84 mass, pwa		$p \text{X}$	Gavrilov 85B a-dep, angp, p
$\text{Cu} \pi^+ 2\pi^-$ 50	Antipov 88B cs	$\pi^- {}^{108}\text{Ag}$		$n \text{X}$ 5	Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p
$K^+ 2\pi^+ \pi^- \text{X}$ 230	Barlag 88D mass	(blacks) mult[grey] mult[shower] (neutrals) 100 320	Biswas 86 cs Biswas 86 cs	deuteron X 5	Gavrilov 85B a-dep, angp, p
$K^- 2\pi^+ \pi^- \text{X}$ 230	Barlag 90B mass	$\pi^- {}^{112}\text{Sn}$		$\pi^- {}^{131}\text{Xe}$	
$K^- \pi^+ 2\pi^- \text{X}$ 230	Barlag 88D mass	$p \text{X}$ 5	Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p	$\pi^0 \text{X}$ 3.5	Pavlyak 86 mult
$\Lambda 2\pi^+ \pi^- \text{X}$ 230	Barlag 89C mass	$n \text{X}$ 5	Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p	$\pi^\pm \text{X}$ 3.5	Pavlyak 86 mult
$p K^0 \pi^+ \pi^- \text{X}$ 230	Barlag 88C mass	deuteron X 5	Gavrilov 85B a-dep, angp, p	πX 3.5	Pavlyak 86B mult, p
$p K^0 \pi^+ \pi^- \text{X}$ 230	Barlag 88C mass	$\pi^- \text{Cd}$		$p \text{X}$ 3.5	Pavlyak 86 mult, p Pavlyak 86B mult, p
$p 2K^- \pi^+ \text{X}$ 230	Barlag 90 mass	inelastic 1.26 - 2.5	Kuzichev 89 a-dep, cs	mult[p] X 3.5	Pavlyak 86B mult
$K^+ K^- 2\pi^+ \pi^- \text{X}$ 230	Barlag 88C mass	ΛX 1.2 - 5	Vorobiev 89C angp Vorobiev 87B a-dep, angp	$\pi^0 \pi^\pm \text{X}$ 3.5	Pavlyak 86 mult
$\pi^- {}^{64}\text{Ni}$		3	Vorobiev 88E p, pol Vorobiev 86 ang, mass	mult[p] πX 3.5	Pavlyak 86B mult
$p \text{X}$ 5	Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p	$p \pi^- \text{X}$ 3	Vorobiev 88E ang, mass, p Vorobiev 86 ang, mass	mult[p] mult[π] X 3.5	Pavlyak 86B mult
$n \text{X}$ 5	Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p	$\pi^- \text{In}$		$\pi^- \text{Xe}$	
deuteron X 5	Gavrilov 85B a-dep, angp, p	$p \text{X}$ 5	Bayukov 85D angp, p	X 0	Barmin 89 cs
$\pi^- \text{Zn}$		$n \text{X}$ 5	Bayukov 85D angp, p	γX 0 3.5	Barmin 89 cs, p Abdurakhimov 88B angp, pt
$p \text{X}$ 5	Bayukov 85D angp, p	$\pi^- {}^{118}\text{Sn}$		$\pi^0 \text{X}$ 3.5	Pluta 88 angp
$n \text{X}$ 5	Bayukov 85D angp, p	$\text{Sn}^* \pi^-$ 0.2306	Ullmann 85 angp	πX 3.5	Strugalski 85B angp
$\pi^- \text{Ge}$		${}^{118}\text{Sn} \pi^- \gamma$ 0.2306	Ullmann 85 angp	mult[π] X 3.5	Strugalski 85B angp, cor, mult, p, pt
$p \text{X}$ 0	Gornov 88 a-dep, p Gornov 87B a-dep, p Gornov 86B a-dep, p	$\pi^- \text{Sn}$		$p \text{X}$ 3.5	Strugalski 86B angp, p, pt
deuteron X 0	Gornov 87B a-dep, p Gornov 86B a-dep, p	$p \text{X}$ 5 30	Bayukov 85D angp, p Abreu 85 a-dep, p, pt	mult[p] X 2.34 - 9 3.5	Strugalski 88 mult Strugalski 86 mult Strugalski 86B mult Strugalski 85 mult
${}^3\text{He} \text{X}$ 0	Gornov 87B a-dep, p Gornov 86B a-dep, p	$\bar{p} \text{X}$ 30	Abreu 85 a-dep, p, pt	(p's) (n's) 3.5	Grishin 88 mult
${}^3\text{H} \text{X}$ 0	Gornov 87B a-dep, p Gornov 86B a-dep, p	$n \text{X}$ 5	Bayukov 85D angp, p	mult[p] (frags) 3.5	Strugalski 85 mult
${}^4\text{He} \text{X}$ 0	Gornov 87B a-dep, p Gornov 86B a-dep, p	$\text{Sn}^* \pi^0$ 39.1	Apokin 86D angp, cs	$\pi^0 \text{ mult[charged] X}$ 3.5	Okhrimenko 87 angp, p Fredriksson 87 cor, mult
$\pi^- \text{Zr}$		$\text{Sn}^* \eta$ 39.1	Apokin 86D angp, cs	$2\pi^0 \text{X}$ 3.5	Grishin 86B p, pt
X 0.2707	Marx 86 cs	$\text{Sn}^* \omega$ 39.1	Apokin 86D angp, cs	$\eta \text{ mult[charged] X}$ 3.5	Okhrimenko 87 angp, p
inelastic 0.2707	Marx 86 cs	$\text{Sn}^* \eta'$ 39.1	Apokin 86D angp, cs	mult[γ] mult[charged] X 3.5	Abdurakhimov 88B mult
$\pi^- \text{Rh}$		$\text{Sn}^* f_2(1270)$ 39.1	Apokin 86D angp, cs	$p \pi^- \text{X}$ 3.5	Strugalski 86B angp, p, pt
$\pi^+ \text{X}$ 0.2875 - 0.353	Gram 89 a-dep, cs	$\mu^- \mu^+ \text{X}$ 225	Greenlee 85 mass, p	$p 0\pi \text{X}$ 3.5	Strugalski 86B angp, p, pt
$\pi^- \text{Ag}$		$p \bar{p} \text{X}$ 30	Beusch 86 a-dep, ang, mass, p, pt		
$\text{Ag} a_1(1260)^-$ 40	Zajmidoroga 85 mass, pwa	$\pi^- {}^{124}\text{Sn}$			
		$p \text{X}$ 5	Bayukov 85D angp, p		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^- \text{Xe} \rightarrow 2p \text{X}$ $\pi^- \text{Pb} \rightarrow 2\pi^+ \text{X}$

$\pi^- \text{Xe}$	$\pi^- \text{Wt}$	$\pi^- \text{Pb}$
2p X 3.5 Pluta 88B angp, cor Bartke 86 p	$\mu^- \mu^+ \text{X}$ Bordalo 87 a-dep, p Bordalo 87B a-dep, pt Richard 87 angp, mass Falciano 86 angp, p Betev 85 mass, p Falciano 85 mass, p Grab 87 mass Louis 86 mass Heinrich 89 p Conway 89 angp, mass, p, pt	$J/\psi(1S) \text{X}$ 530 Kartik 90 a-dep, cs, p, pt
mult[p] $\pi^0 \text{X}$ 3.5 Pluta 88 angp, cor, mult Strugalski 88C cor, mult, p	194	$\chi(\text{unspec}) \text{X}$ 530 De 89 -
mult[p] $\pi^- \text{X}$ 3.5 Strugalski 86B mult	225	$K^0 \text{X}$ 40 Gabunia 89 a-dep, mult
mult[p] $0\pi \text{X}$ 3.5 Strugalski 86B mult	250 252	p X 0.6 Golubeva 89 angp 1.4 - 5 Bayukov 85C a-dep, angp, p
mult[p] mult[π^0] X 3.5 Miller 87B angp, mult, p	263 286 300	1.5 Bayukov 85F a-dep, p Burgov 87 a-dep, angp, p
mult[p] mult[π] X 3.5 Strugalski 85B mult	2μ^+ X 225 Louis 86 ang	3 Vorobiev 85B pol 5 Vorobiev 86B angp 30 Abreu 85 a-dep, p, pt 38 Barwoff 85 mult 40 Bannikov 89 a-dep, angp, cs, mult
(p's) (n's) π 3.5 Grishin 88 angp, mult	2$\mu^- \text{X}$ 225 Louis 86 ang	$\bar{p} \text{X}$ 30 Abreu 85 a-dep, p, pt
mult[p] mult[n] mult[frag] 2.34 - 9 Strugalski 88 cs	$\pi^+ \pi^- \text{X}$ 300 Badier 85 cs, mass	n X 1.4 - 5 Bayukov 85C a-dep, angp, p Bayukov 85F a-dep, p
mult[p] mult[n] $\pi^- \text{mult[frag]}$ 3.5 Strugalski 88 cs	B \bar{B} X 140 - 286 Bordalo 88 cs	nucleon X 40 Gabunia 90 a-dep, mult, p
$\pi^- \text{Ta}$	bottom bottom X 194 Ereditato 85 cs	ΛX 1.2 - 5 Vorobiev 89C angp Vorobiev 87B a-dep, angp
$\pi^- \text{X}$ 9.4 Agakishiev 87C angp	$\mu^\pm \mu^- \mu^+ \text{X}$ 140 - 286 Bordalo 88 -	deuteron X 3 Burgov 87 a-dep, angp, p 40 Vorobiev 88E p, pol Gabunia 89 a-dep, mult
Ta $\alpha_1(1260)^-$ 40 Zajmidoroga 85 mass, pwa	$\mu^- 2\mu^+ \text{X}$ 194 Ereditato 85 mass, pt	3 40
$\pi^- \pi^\pm \text{X}$ 9.4 Agakishiev 87C angp	2$\mu^- \mu^+ \text{X}$ 194 Ereditato 85 mass, pt	5 Vorobiev 86B angp, p
p $\pi^- \text{X}$ 9.4 Agakishiev 87C angp	$\pi^- 197\text{Au}$	mult[p] X 40 Bannikov 89 mult
$\pi^+ 2\pi^- \text{X}$ 40 Bellini 84 mass, pwa	fragt X 0.1426 - 0.1947 Hicks 85 -	grey X 40 Boos 88 a-dep, mult
$\pi^- \text{Wt}$	(blacks) mult[grey] mult[shower] (neutrals) 100 Biswas 86 cs 320 Biswas 86 cs	mult[π] X 40 Boos 88 a-dep, mult
mult[charged] X 300 Badier 85 cs, mass	$\pi^- \text{Pb}$	X star 40 Boos 88 a-dep, cs
$J/\psi(1S) \text{X}$ 125 Katsanevas 87 a-dep, cs, p, pt 225 Grab 87 cs Louis 86 cs 252 Biino 87 p, pol	X 0.2707 Marx 86 cs	Pb* π^0 39.1 Apokin 86D angp, cs
$\Upsilon(1S) \text{X}$ 194 Falciano 85 p, pt 286 Grossmanhand 86 cs, p, pt	inelastic 0.2707 Marx 86 cs 1.26 - 2.5 Kuzichev 89 a-dep, cs	Pb π^- 0.2707 Marx 86 cs
$\Upsilon(2S) \text{X}$ 194 Falciano 85 p, pt 286 Grossmanhand 86 cs	charged X 38 Barwoff 85 mult 40 Boos 88 a-dep, mult	Pb* η 39.1 Apokin 86D angp, cs
$\Upsilon(3S) \text{X}$ 194 Falciano 85 p, pt 286 Grossmanhand 86 cs	charged$^+$ X 40 Boos 88 a-dep, mult	Pb ρ^- 200 Capraro 87 angp
$D^0 \text{X}$ 225 Grab 87 cs Louis 86 cs	charged$^-$ X 38 Barwoff 85 mult 40 Gabunia 90 a-dep, mult, p Boos 88 a-dep, mult	Pb* ω 39.1 Apokin 86D angp, cs
$\bar{D}^0 \text{X}$ 225 Louis 86 cs	mult[charged$^+$] X 40 Boos 88 a-dep, mult	Pb* η' 39.1 Apokin 86D angp, cs
longlived X 300 Badier 85 cs	mult[charged$^-$] X 40 Boos 88 a-dep, mult	Pb $\alpha_1(1260)^-$ 240 Zajmidoroga 85 mass, pwa
$e^- e^+ \text{X}$ 300 Badier 85 cs, mass	$\pi^+ \text{X}$ 0.2875 - 0.353 Gram 89 a-dep, cs 1.4 - 5 Bayukov 85E a-dep, angp, p	Pb* $f_2(1270)$ 39.1 Apokin 86D angp, cs
$\mu^- \mu^+ \text{X}$ 80 Palestini 85 angp, mass, p, pt 125 Anassontzis 87 ang, angp, mass, p, pt Katsanevas 87 a-dep, mass 140 - 286 Guanzirololi 88 angp	1.5 Buklej 86 angp, p 3 Vorobiev 89B a-dep, angp Vorobiev 88D a-dep, angp Ananieva 86 mult, p, pt	charged$^-$ charged X 38 Barwoff 85 angp, mult
	40 Ananieva 86 mult, p, pt	2charged X 38 Barwoff 85 angp, mult
	$\pi^- \text{X}$ 1.4 - 5 Bayukov 85E a-dep, angp, p	2$\pi^+ \text{X}$ 5 Vorobiev 89B angp, cor, pt Vorobiev 88D angp, cor

$\pi^- \text{Pb} \rightarrow \pi^+ \pi^- \text{X}$

$\pi^- \text{nucleus} \rightarrow \text{mult}[\text{grey}] \text{X}$

$\pi^- \text{Pb}$			$\pi^- 209\text{Bi}$			$\pi^- \text{nucleus}$		
$\pi^+ \pi^- \text{X}$ 38	Barwoff 88	mass	fragt X 0.1426 - 0.1947	Hicks 85	-	$^{37}\text{Ar X}$ 0.3957 - 0.4536	Gavrin 89	cs, mult
$J/\psi(1S) \gamma \text{X}$ 530	De 89	a-dep, cs, mass, p	$\pi^- 238\text{U}$ fragt X 0.1426 - 0.1947	Hicks 85	-	mult[charged] (neutrals) 340	Ahmad 85B	mult
$K^0 \text{ charged}^- \text{X}$ 40	Gabunia 90	a-dep, mult, p	$\pi^- \text{U}$ X 1.4 - 5	Bayukov 85F	a-dep, p	$\pi^0 \text{X}$ 5 - 40	Fredriksson 87	mult
$K_S \text{ charged X}$ 38	Barwoff 88	a-dep, cs, mult, p, pt	$\mu^+ \text{X}$ 320	Cobbaert 87B	a-dep, cs, p	$\pi^+ \text{X}$ 40 - 50	Fredriksson 87 Bajramov 89	p p
$p \text{ charged X}$ 38	Barwoff 85	angp, mult	$\mu^- \text{X}$ 320	Cobbaert 87B	a-dep, cs, p	$\pi^- \text{X}$ 7 - 50	Fredriksson 87 Bajramov 89	angp, p p
$p \text{ charged}^- \text{X}$ 40	Bannikov 89	angp, mult	$\pi^+ \text{X}$ 1.4 - 5	Bayukov 85E	a-dep, angp, p	$\pi_2(1670)^- \text{X}$ 40	Bellini 84	cs
$p \pi^- \text{X}$ 3	Vorobiev 88E	ang, mass, p	$\pi^- \text{X}$ 1.4 - 5	Bayukov 85E	a-dep, angp, p	$J/\psi(1S) \text{X}$ 70	Prokoshkin 87C	pol, pt
$\bar{p} \pi^+ \text{X}$ 38	Barwoff 88	mass	$J/\psi(1S) \text{X}$ 320	Catanesi 89	cs	80	Albrow 88	pol
$\Lambda \text{ charged X}$ 38	Barwoff 88	mass	$p \text{X}$ 1.4 - 5	Bayukov 85C	a-dep, angp, p	252	Bino 87	p, pol
$\Lambda \text{ charged}^- \text{X}$ 40	Barwoff 88	a-dep, cs, mult, p, pt	$n \text{X}$ 1.4 - 5	Bayukov 85F	a-dep, p	530	Kartik 90	p, pt
$\bar{\Lambda} \text{ charged X}$ 38	Barwoff 88	a-dep, cs, mult	charm X 320	Bayukov 85C	a-dep, angp, p	mult[htrack] X 340	Ahmad 89	mult
nucleon $K^0 \text{X}$ 40	Gabunia 90	a-dep, mult, p	charm X 320	Cobbaert 87B	a-dep	meson^- X 40	Bellini 84	-
$p \bar{p} \text{X}$ 30	Beusch 86	a-dep, ang, mass, p, pt	$\mu^- \mu^+ \text{X}$ 320	Catanesi 88	p, pt	$p \text{X}$ 5 - 200	Fredriksson 87	mult
nucleon ΛX 40	Gabunia 90	a-dep, mult, p	$2\mu^+ \text{X}$ 320	Catanesi 88	p, pt	7 - 30	Fredriksson 87	angp
multip charged^- X 40	Bannikov 89	angp, mult	$2\mu^- \text{X}$ 320	Catanesi 88	p, pt	$\bar{p} \text{X}$ 30	Fredriksson 87	angp
charged+ X star 40	Boos 88	a-dep, mult	$2p \text{X}$ 2.5 5	Bayukov 85 Bayukov 85	cor cor	$n \text{X}$ 4 - 40	Fredriksson 87	mult
charged^- X star 40	Boos 88	a-dep, mult	bottom bottom X 320	Catanesi 89	cs	ΛX 3.9 - 40	Panagiotou 89	angp, p
mult[charged+] X star 40	Boos 88	a-dep, mult	Catanesi 88	cs	cs	30 - 40	Fredriksson 87	p, pol, pt
mult[charged^-] X star 40	Boos 88	a-dep, mult	Catanesi 86	cs, p	cs, p	$\bar{\Lambda} \text{X}$ 30	Fredriksson 87	angp
grey X star 40	Boos 88	a-dep, mult	$\mu^- 2\mu^+ \text{X}$ 320	Catanesi 86	p, pt	deuteron X 1 - 6	Gavrilov 85	a-dep, angp, p
mult[grey] X star 40	Boos 88	a-dep, mult	$2\mu^- \mu^+ \text{X}$ 320	Catanesi 86	p, pt	dibaryon X 4 - 6.2	Amelin 87B	cs
$\text{Pb } \pi^- \gamma$ 40	Antipov 85	ang, angp, p	$\pi^- \text{nucleus}$ inelastic 5 - 300 13.3	Fredriksson 87	a-dep, cs	dibaryon(S = -2) X 4	Shahbazyan 88	cs, mass
$\mu^- \mu^+ \gamma \text{X}$ 530	De 89	mass	charged X 300	Prokoshkin 87C	cs	mult[p] X 2.9	Vorobiev 85	mult
$\pi^+ 2\pi^- \text{X}$ 40	Bellini 84	mass, pwa	charged+ X 40	Holynski 86	p	axion X 300	Badier 86	cs
$K^0 \bar{K}^0 \text{ charged}^- \text{X}$ 40	Gabunia 90	a-dep, mult, p	charged^- X 10.5 - 64 40	Fredriksson 87	mult	black X 300 340	Babecki 85 Ahmad 89	mult angp, mult
nucleon $K^0 \bar{K}^0 \text{X}$ 40	Gabunia 90	a-dep, mult, p	mult[charged+] X 40	Boos 88	a-dep, mult	gluino X 300 350	Badier 86 Arnold 87B	cs cs
$\pi^- 208\text{Pb}$ $208\text{Pb } \pi^- \gamma$ 0	Delaat 85	p	mult[charged^-] X 40	Boos 88	a-dep, mult	grey X 5.4 - 340 40 300 340	Fredriksson 87 Boos 88 Babecki 85 Ahmad 89	mult a-dep, mult mult angp, mult
			htrack X 5.4 - 340	Fredriksson 87	mult	jet X 200	Fredriksson 87	mult
			longlived X 300	Badier 86	cs	mult[black] X 340	Ahmad 89	mult
			mult[grey] X 40 340	Boos 88 Ahmad 90	a-dep, mult angp, mult			

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

π^- nucleus \rightarrow mult[neutral] X $\pi^+ p \rightarrow K^*(892)^+ X$

π^- nucleus			π^- nucleus			π^- nucleus			
mult[neutral] X			charged $^-$ X star			(p's) $2\pi^- 0\gamma$ fragt charged $^+$			
350	Arnold 87B	cs, p	40	Boos 88	a-dep, mult	5	Agababyan 85B		
mult[shower] X			mult[charged $^+$] X star			(p's) $\pi^+ 2\pi^- (\gamma's)$ fragt			
5.4 - 340	Fredriksson 87	mult	40	Boos 88	a-dep, mult	5	Agababyan 85B	cs, mass	
50	Kumar 89	angp, mult, p	mult[charged $^-$] X star			$\Lambda K_S 2\pi^+ 2\pi^- X$			
300	Juric 86	angp, mult, p	40	Boos 88	a-dep, mult	200	Arenton 86	mass	
shower X			mult[htrack] mult[shower] X			$\pi^- 0\gamma X$			
5.4 - 340	Fredriksson 87	mult	340	Ahmad 89	mult	300	Alde 88B	mass	
17 - 200	Fredriksson 87	p	black mult[grey] X			$\pi^+ \pi^-$			
150 - 200	Fredriksson 87	mult	340	Ahmad 89	mult	$2\pi^0$			
60 - 300	Holyński 86B	p	grey mult[grey] X			0.1181 - 17.2	Clark 85	pwa	
300	Juric 86	angp, mult, p	340	Ahmad 90	angp, mult	0.9337 - 14.19	Apokin 89B	cs	
300	Babecki 85	angp, mult, p	grey mult[shower] X						
340	Ahrar 86	mult, p	200	Jain 88B	cor, mult, p				
X star			grey shower X						
40	Boos 88	a-dep, cs	200	Jain 88B	cor, mult, p				
nucleus ρ^-			grey X star						
43 - 202	Landsberg 86	-	40	Boos 88	a-dep, mult				
nucleus $\pi_2(1670)^-$			mult[black] grey X			charged X			
40	Cassata 88	cs	340	Ahmad 89	mult	80 - 140	Apeimon 89	angp, cs, pt	
nucleus $\alpha_3(2050)^-$			mult[black] mult[shower] X			250	Aivazyan 89	mult, p	
40	Cassata 88	cs	340	Ahmad 89	mult		Adamus 88B	mult, p, pt	
200	Joyner 89	cs	mult[grey] mult[shower] X				Adamus 88C	mult, p	
nucleus $K^*(892)^-$			20 - 37	Fredriksson 87	mult		Adamus 88C	mult, p, pt	
43 - 202	Landsberg 86	-	300	Juric 86	angp, mult, p		Adamus 87C	mult, p	
nucleus $K^*(1370)^-$			340	Ahmad 89	mult	charged $^+$ X			
43 - 202	Landsberg 86	-	mult[grey] shower X			250	Aivazyan 89	mult, p	
DD $< \pi^+ 2\pi^- >$ nucleus			20 - 37	Fredriksson 87	cor, mult		Adamus 88C	mult, p, pt	
40	Cassata 88	cs, mass	50 - 340	Tariq 90	cor, mult, p	charged $^-$ X			
2charged X			60 - 300	Holyński 86B	cor, mult, p	200	Brick 90	cor, mult, p	
50 - 200	Azimov 85	cor	300	Juric 86	angp, mult, p	250	Aivazyan 89	mult, p	
$e^- e^+ X$			340	Ahmad 90	angp, mult		Adamus 88G	mult, p, pt	
300	Badier 86	cs, mass	mult[grey] X star				Ajinenko 87	mult, p, pt	
$\mu^- \mu^+ X$			40	Boos 88	a-dep, mult	mult[charged] X			
43 - 280	Fredriksson 87	a-dep, angp, pt	shower mult[hadron] X			250	Adamus 88G	mult	
150 - 280	Fredriksson 87	a-dep, angp	300	Juric 86	angp, mult, p	mult[charged] (neutrals)			
225	Rutherford 85	a-dep, mass	nucleus $\pi^- \gamma$			147	Brick 86	p	
252	Biino 87	ang, mass, p	40	Antipov 86D	p	200	Naudet 86	cor, p	
300	Badier 86	cs, mass	nucleus $\pi^0 \pi^-$			250	Ajinenko 90	angp, mult, p	
530	Kartik 90	mass, p	43 - 202	Landsberg 86	mass	γX			
$\pi^+ \pi^- X$			$2\pi^-$ fragt			280	Bonesini 88	p, pt	
300	Badier 86	cs, mass	5	Agababyan 85B	angp, cs, mass, p	280 - 300	Richard 87	p, pt	
$D^0 \bar{D}^0 X$			nucleus $\rho^0 \pi^-$			300	Lancoon 86B	angp, pt	
350	Aoki 88	ang	40	Cassata 88	cs, mass		Rutherford 85	p, pt	
$D^+ \bar{D}^0 X$			200	Joyner 89	cs		Demarzo 87	p, pt	
350	Aoki 88	ang	$\rho^0 \pi^-$ fragt				Richard 87	p, pt	
$D^0 D^- X$			5	Agababyan 85B	angp, cs, mass	$\pi^0 X$			
350	Aoki 88	ang	nucleus $f_0(1240) \pi^-$			250	Adamus 86C	cs, mult, p, pt	
$D^+ D^- X$			200	Joyner 89	cs	280	Bonesini 87	cs, mult, p, pt	
350	Aoki 88	ang	$\pi^- 2\gamma X$			280	Richard 87	p, pt	
K_S charged X			$\pi^+ \pi^- \pi^\pm X$			280 - 300	Lancoon 86B	angp, pt	
38	Barwolf 88	ang	300	Badier 86	cs, mass	300	Demarzo 87B	p, pt	
p charged $^-$ X			nucleus $\pi^+ 2\pi^-$				Richard 87	p, pt	
25 - 60	Fredriksson 87	cor, mult	40	Prokoshkin 87C	angp, mass		Ferbel 86	angp, pt	
Λ charged X			200	Joyner 89	angp, mass	ηX			
38	Barwolf 88	ang	$2D^- 2charm X$			10.5	Bitsadze 86	a-dep, p	
$\bar{\Lambda}$ charged X			350	Aoki 87	angp	280	Bonesini 89	cs, p, pt	
38	Barwolf 88	ang, p, pt	(p's) $2\pi^- (\gamma's)$ fragt				Richard 87	p, pt	
$2p X$			5	Agababyan 85B	cs, mass	ϕX			
↑	Kechechyan 89	p	(p's) $2\pi^- (\gamma's)$ fragt charged $^+$			120	Dijkstra 86D	-	
4 - 6.2	Amelin 87	mass	5	Agababyan 85B	cs, mass	$K^+ X$			
5	Amelin 86	ang, mass				12	Bitsadze 85B	mass	
p $\Sigma^- X$						$K^*(892)^+ X$			
4	Shahbazyan 88	cs, mass				?	Chliapnikov 90	cs	
$2\Lambda X$									
4	Shahbazyan 88	cs, mass							
charged $^+$ X star									
40	Boos 88	a-dep, mult							

$$\pi^+ p \rightarrow K^*(892)^0 X$$

$$\pi^+ p \rightarrow \Sigma^0 K^+ \pi^+$$

$\pi^+ p$			$\pi^+ p$		$\pi^+ p$		$\pi^+ p$		$\pi^+ p$	
$K^*(892)^0 X$			$N_{5/2}^*(1480)^{+++} \pi^-$		$2\pi^- X$		$2\pi^- X$		$2\pi^- X$	
?	Chliapnikov 90	cs	3.94	Arefiev 87	250	Adamus 88	angp, cor, p			
$K^*(892)^0 X$				ang, angp, mass	$\pi^+ \pi^- X$	4.23	Drutskoy 87	ang		
16	Jawahery 85	p, pt	7.792	Arefiev 86						
?	Chliapnikov 90	cs		Arefiev 90B						
$K_S X$			$p \rho^+$		$K^- \pi^+ X$	16	Jawahery 85	mass		
?	Chliapnikov 90	cs	9.9	Baller 88	angp, cs, pt					
$D_{5/2}^+ X$			$N_{5/2}^*(1650)^{+++} \pi^-$		$p \pi^+ X$	85	Armstrong 86B	mass, p		
200	Becker 87	-	3.94	Arefiev 87	ang, angp, mass	$\Sigma^+ \pi^+ X$	4.23	Drutskoy 87B	mass	
$p X$				Arefiev 86	cs	$p K^+ X$	4.23	Drutskoy 87B	mass	
1.84 - 2.63	Abramov 88	ang, angp, p	4.23	Drutskoy 88	cs	$p K^0 X$	4.23	Drutskoy 87B	mass	
30	Abreu 85	a-dep, p, pt		Mikhajlichen 87	cs					
200	Brick 89	mult				$p \bar{p} X$	30	Beusch 86	a-dep, ang, mass, p, pt	
250	Ajinenko 89E	cs, mult, p, pt								
$\bar{p} X$			$N_{5/2}^*(1760)^{+++} \pi^-$		$\gamma \text{ jet } X$	280	Bonesini 89B	p, pt		
30	Abreu 85	a-dep, p, pt		$\Delta(1232 P_{33})^{++} \rho^0$	3.94	Arefiev 90B	angp			
$\Delta(1232 P_{33})^{++} X$				Arefiev 86B						
250	Ajinenko 89E	cs, mult, p, pt				$2 \text{ jet } X$	200	Naudet 86	p, pt	
ΛX			$N_{5/2}^*(2070)^{+++} \pi^-$		$\pi^+ \text{ mult[charged] (neutrals)}$	250	Adamus 88F	mult		
18.5	Panagiotou 89	p, pol, pt	4.23	Drutskoy 88	cs	$p \text{ mult[charged] (neutrals)}$	250	Adamus 88F	mult	
250	Ajinenko 89E	cs, mult, p, pt		Mikhajlichen 87	cs					
$\bar{\Lambda} X$			$\Delta(1232 P_{33})^{++} f_2(1270)$		$p \pi^+ \gamma$	0.4158	Meyer 88	angp, p		
250	Ajinenko 89E	cs, mult, p, pt		Arefiev 90B	cs	$\Delta(1232 P_{33})^{++} 2\pi^0$	15.7	Clark 85	ang, angp, mass, pwa	
$\Sigma(1385 P_{13})^+ X$			15.7	Zhokin 89	angp, cs					
250	Ajinenko 89E	cs, mult, p, pt		Clark 85	cs	$\Delta(1232 P_{33})^{++} \pi^+ \pi^-$	15.7	Ajinenko 89B	cs	
$\text{anomalous } X$			$\text{exotic-nucleon } \pi^-$		$N_{5/2}^*(1390)^{+++} \pi^0 \pi^-$	3.94	Arefiev 87	ang, angp, mass		
147	Fuess 87	-	4.2	Brovkin 89	cs					
$\text{shower } X$			$N_{5/2}^*(\text{unspec})^{+++} \pi^-$		$N_{5/2}^*(1480)^{+++} \pi^0 \pi^-$	3.94	Arefiev 87	ang, angp, mass		
200	Brick 90	cor, mult, p		Abramov 89C	cs					
$p \pi^+$			4.23	Mikhajlichen 87	cs	$p \rho^+ \pi^0$	15.7	Ferguson 87	cs	
0.03 - 0.67	Brack 89	angp, cs				$p \rho^0 \pi^+$	15.7	Ferguson 87	cs, p	
0.0668	Brack 88	angp				$n \rho^+ \pi^+$	15.7	Ferguson 87	cs	
0.1208 - 0.2259	Friedman 90	cs				$p \omega \pi^+$	15.7	Ferguson 87	cs	
0.1305 - 0.2258	Friedman 89	cs				$N_{5/2}^*(1650)^{+++} \pi^0 \pi^-$	3.94	Arefiev 87	ang, angp, mass	
0.1356	Wiedner 89	amp, angp								
0.2445 - 0.4168	Wiedner 87	angp				$p f_2(1270) \pi^+$	250	Ajinenko 89B	cs	
0.303 - 0.7263	Ottermann 85B	angp				$p f_1(1285) \pi^+$	85	Armstrong 89C	cs	
0.378 - 0.687	Abazev 84	pwa								
0.471 - 0.625	Sadler 87	angp, cs								
0.471 - 0.687	Barlow 89	angp, asym, pol								
	Mokhtari 86	angp, asym, pwa								
	Mokhtari 85	pol								
0.547 - 0.625	Seftor 89	pol								
0.547 - 0.687	Wightman 88	angp, asym, pol								
< 1.232	Arndt 85	amp								
4.314 - 76.26	Zhokin 89	angp								
9.9	Baller 88	angp, cor, pt								
40	Siksin 87	angp								
50	Kazarinov 85	angp								
< 200	Asad 85	angp								
	Hohler 89	angp, pol, pwa								
250	Grassler 88	angp, cs								
	Adamus 87D	angp, cs								
$\Delta(1232 P_{33})^+ \pi^+$			$DD < \text{charged (charged)} >$		p	250	Adamus 88F	cs, p		
9.9	Baller 88	angp, cs, pt			$2 \text{ charged } X$	200	Brick 90	cor, mult, p		
$N_{5/2}^*(1380)^{+++} \pi^-$			π^+		$2\gamma X$	300	Demarzo 87B	mass		
4.23	Drutskoy 88	cs			$\mu^- \mu^+ X$	40 - 225	Rutherford 85	mass		
	Mikhajlichen 87	cs			$2\pi^+ X$	250	Adamus 88	angp, cor, p		
$N_{5/2}^*(1390)^{+++} \pi^-$										
3.94	Arefiev 87	ang, angp, mass								

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^+ p \rightarrow \Sigma^+ K^0 \pi^+$ $\pi^+ p \rightarrow \text{vee } 4\text{charged (neutrals)}$

$\pi^+ p$			$\pi^+ p$			$\pi^+ p$			$\pi^+ p$		
$\Sigma^+ K^0 \pi^+$	4.23	Drutskoy 87	cs	$p \phi \rho^0 \pi^+$	85	Armstrong 86D	cs	2kink⁺ 2charged (neutrals) +			
$p K^+ \bar{K}^0$	4.23	Drutskoy 87	cs	$p 2\phi \pi^+$	85	Armstrong 86	cs, mass	2kink⁻ 2charged (neutrals)	4.23	Drutskoy 87	cs
$\Sigma(1385 P_{13})^+ K^0 \pi^+$	4.23	Drutskoy 89	cs	$\Lambda K^+ \pi^+ \pi^0$	4.23	Drutskoy 87	cs	$p 2\pi^+ \pi^0 \pi^-$	3.94	Arefiev 90	mass, p
$\Lambda K^*(892)^+ \pi^+$	4.23	Drutskoy 89	cs	$\Lambda K^0 2\pi^+$	4.23	Drutskoy 89	cs, mass	Arefiev 90B	mass, p		
$p \pi^+ \text{meson}^0$	85	Armstrong 87	cs	$\Sigma^+ K^0 \pi^+ \pi^0$	4.23	Drutskoy 87	cs	Andryakov 89	mass		
baryon $K^0 \pi^+$?	Drutskoy 89	-	$\Sigma^+ K^+ \pi^+ \pi^-$	4.23	Drutskoy 87	cs	Ferguson 87	cor		
$p \pi^+ \text{glueball}$	85	Armstrong 87	cs	$\Sigma^0 K^0 2\pi^+$	4.23	Drutskoy 87	cs	$p \rho^0 2\pi^+ \pi^-$	15.7	Ferguson 87	cs, p
2charged (charged) (neutrals)	80 - 140	Apsimon 90	col, pt	$\Sigma^- K^+ 2\pi^+$	4.23	Drutskoy 87	cs	Armstrong 89C	cs		
2kaon πX	200	Becker 87	mass	$p K^+ \bar{K}^0 \pi^0$	4.23	Drutskoy 87	cs	$p \rho^- 3\pi^+$	15.7	Ferguson 87	cs
$\Lambda 2\pi^+ X$	4.23	Drutskoy 87B	mass	$p K^+ K^- \pi^+$	85	Armstrong 86B	mass, pwa	$p \omega 2\pi^+ \pi^-$	15.7	Ferguson 87	cs, p
$p K^+ \pi^0 X$	4.23	Drutskoy 87B	mass	$n K^+ \bar{K}^0 \pi^+$	4.23	Drutskoy 87	cs	$p \phi 2\pi^+ \pi^-$	85	Armstrong 86D	cs
$p K^+ \pi^+ X$	4.23	Drutskoy 87B	mass	$p K^0 \bar{K}^0 \pi^+$	4.23	Drutskoy 87	cs	$p f_2(1270) 2\pi^+ \pi^-$	85	Armstrong 89C	cs
$p K^0 \pi^+ X$	4.23	Drutskoy 87B	mass	$p K^* (892)^- K^+ \pi^+$	85	Augustin 88C	mass	$\Lambda K^0 2\pi^+ \pi^0$	4.23	Drutskoy 87	cs
vee 2charged (neutrals)	4.23	Drutskoy 87	cs	$p K^*(892)^0 \bar{K}^0 \pi^+$	85	Augustin 88C	mass	$\Lambda K^+ 2\pi^+ \pi^-$	4.23	Drutskoy 87	cs
kink⁺ 2charged (neutrals) +	4.23	Drutskoy 87	cs	$p \bar{K}^*(892)^0 K^0 \pi^+$	85	Augustin 88C	mass	$\Sigma^+ K^+ \pi^+ \pi^0 \pi^-$	4.23	Drutskoy 87	cs
kink⁻ 2charged (neutrals)	4.23	Drutskoy 87	cs	$p k^*(892)^0 \bar{K}^*(892)^0 \pi^+$	85	Armstrong 86D	cs, mass	$\Sigma^+ K^0 2\pi^+ \pi^-$	4.23	Drutskoy 87	cs
$p \pi^+ 2\pi^0$	15.7	Ferguson 87	cs, mass	$p 2K_S \pi^+$	85	Vassiliadis 85	angp, mass	$\Sigma^- K^0 3\pi^+$	4.23	Drutskoy 87	cs
$n 2\pi^+ \pi^0$	15.7	Ferguson 87	cs, mass	$2p \bar{p} \pi^+$	85	Armstrong 87	mass, p	$p K^0 \bar{K}^0 \pi^+ \pi^0$	4.23	Drutskoy 87	cs
$p 2\pi^+ \pi^-$	3.94	Arefiev 90	mass, p	$p \Lambda \bar{\Lambda} \pi^+$	85	Armstrong 87	mass, p	$p K^+ \bar{K}^0 \pi^+ \pi^-$	4.23	Drutskoy 87	cs
		Arefiev 90B	mass, p	$DD < p > DD < \pi^+ > \pi^+ \pi^-$	85	Vassiliadis 85	angp, mass	$p K^0 K^- 2\pi^+$	4.23	Drutskoy 87	cs
		Zhokin 89	cs, mass					$n K^0 \bar{K}^0 2\pi^+$	4.23	Drutskoy 87	cs
		Arefiev 87	mass					$\Delta(1232 P_{33})^{++} K^+ K^- \pi^+ \pi^-$	85	Armstrong 86D	cs
		Arefiev 86	mass					$p K^*(892)^0 K^- 2\pi^+$	85	Armstrong 86D	cs
		Arefiev 86B	ang, mass					$p \bar{K}^*(892)^0 K^+ \pi^+ \pi^-$	85	Armstrong 86D	cs
		Abramov 89C	mass					$p K^+ K^- \rho^0 \pi^+$	85	Armstrong 86D	cs
		Drutskoy 88	mass, p					$p K^+ K^- \phi \pi^+$	85	Armstrong 86	cs, mass
		Mikhajlichen 87	mass					$p K_S^0(1430)^0 K^- 2\pi^+$	85	Armstrong 86D	cs
		Ferguson 87	cs, mass					$p K^+ K_S \pi^+ \pi^-$	85	Augustin 88C	mass, pwa
		Armstrong 86B	mass, pwa						85	Armstrong 86E	cs, mass, p, pwa
		Vassiliadis 85	angp, mass								
		Ajinenko 89B	cs								
$p \rho^0 \pi^+ \pi^0$	15.7	Ferguson 87	cs	$DD < p > DD < \pi^+ > K^+ K^-$	85	Vassiliadis 85	angp, mass				
$p \rho^+ \pi^+ \pi^-$	15.7	Ferguson 87	cs	$DD < \pi^+ > DD < p > 2K_S$	85	Vassiliadis 85	angp, mass				
$p \rho^- 2\pi^+$	15.7	Ferguson 87	cs	$DD < \pi^+ > DD < p > p \bar{p}$	85	Vassiliadis 85	angp, mass				
$n \omega 2\pi^+$	15.7	Ferguson 87	cs								
$p a_0(980)^+ \pi^+ \pi^-$	85	Augustin 88C	mass	4charged (neutrals)	4.23	Drutskoy 87	cs	$p K_S K^- 2\pi^+$	85	Augustin 88C	mass, pwa
$p a_0(980)^- 2\pi^+$	85	Augustin 88C	mass	2vee 2charged (neutrals)	4.23	Drutskoy 87	cs				
$p a_2(1320)^+ \pi^+ \pi^- + p a_2(1320)^- 2\pi^+$	85	Armstrong 89C	cs	kink⁺ vee 2charged (neutrals) +	4.23	Drutskoy 87	cs				
$p 2\rho^0 \pi^+$	85	Armstrong 89C	cs	kink⁻ vee 2charged (neutrals)	4.23	Drutskoy 87	cs	vee 4charged (neutrals)	4.23	Drutskoy 87	cs

$\pi^+ p \rightarrow \text{kink}^+ 4\text{charged (neutrals)} + \text{kink}^- 4\text{charged (neutrals)}$

$\pi^+ {}^6\text{Li} \rightarrow 2p \pi^- X$

<p>$\pi^+ p$</p> <p>kink⁺ 4charged (neutrals) + kink⁻ 4charged (neutrals) 4.23 Drutskoy 87 cs</p> <p>n $3\pi^+ \pi^0 \pi^-$ 15.7 Ferguson 87 cs, mass</p> <p>p $3\pi^+ 2\pi^-$ 4.2 Brovkin 89 mass, p 15.7 Ferguson 87 cs, mass 85 Armstrong 89C mass, pwa</p> <p>250 Ajinenko 89B mass, pwa cs</p> <p>p $\rho^+ 2\pi^+ 2\pi^-$ 15.7 Ferguson 87 cs</p> <p>p $\rho^- 3\pi^+ \pi^-$ 15.7 Ferguson 87 cs</p> <p>p $K^+ K^- 2\pi^+ \pi^-$ 85 Armstrong 86D cs, mass, p</p> <p>p $2K^+ 2K^- \pi^+$ 85 Armstrong 86 cs, mass</p> <p>2p $\bar{p} 2\pi^+ \pi^-$ 85 Armstrong 87 mass, p</p> <p>kink⁺ vee 4charged (neutrals) + kink⁻ vee 4charged (neutrals) 4.23 Drutskoy 87 cs</p> <p>2kink⁺ 4charged (neutrals) + 2kink⁻ 4charged (neutrals) 4.23 Drutskoy 87 cs</p> <p>p $3\pi^+ \pi^0 2\pi^-$ 15.7 Ferguson 87 cs, mass</p> <p>kink⁺ 6charged (neutrals) + kink⁻ 6charged (neutrals) 4.23 Drutskoy 87 cs</p> <p>2p $\bar{p} 3\pi^+ 2\pi^-$ 85 Armstrong 87 mass, p</p>	<p>π^+ deuteron</p> <p>p X 0.1947 - 0.5212 Arvieux 84C -</p> <p>2p 0.2069 - 0.4168 Boschitz 86 angp, dme, pol</p> <p>0.3957 - 0.5728 Strakovsky 86 angp, pwa</p> <p>0.65 - 1.95 Borkovsky 84 angp, cs, pwa</p> <p>Chuvilo 86</p> <p>deuteron π^+ 0.143 - 0.256 Smith 87C angp, asym 0.1695 Smith 86F angp, cs, pol 0.2069 - 0.2549 Smith 86D angp, asym, pol</p> <p>0.2069 - 0.3744 Redwine 86 pol</p> <p>0.2165 - 0.2514 Shin 86 angp, pol</p> <p>0.2189 - 0.4105 Yokosawa 85C -</p> <p>0.2236 - 0.4421 Ottermann 85B angp</p> <p>0.2248 - 0.4168 Boschitz 86 angp, dme, pol</p> <p>0.2353 - 0.2549 Smith 86C angp, asym, pol</p> <p>0.2353 - 0.3701 Ungricht 85 angp, pol, pwa</p> <p>0.2422 Blankleider 84 -</p> <p>0.2875 Smith 86E angp, pol</p> <p>0.74 Yamauchi 85 angp, asym</p> <p>dibaryon π^- 0.2217 Ashery 88 angp, cs</p> <p>dibaryon (S = -1) K^+ 1.06 - 1.4 Pigot 85 angp</p>	<p>$\pi^+ {}^3\text{He}$</p> <p>${}^3\text{He} \pi^+$ 0.1922 - 0.2605 Marx 86 angp cs 0.1947 - 0.248 Angelescu 90 0.2445 - 0.3314 Pillai 88 angp</p> <p>2p X < 0.2875 Redwine 86 cs</p> <p>3p 0.1461 - 0.1731 Aniol 85 cs 0.1947 - 0.248 Angelescu 90 ang, cs, p</p> <p>$\pi^+ {}^4\text{He}$</p> <p>X 0.1283 - 0.4168 Marx 86 cs</p> <p>${}^4\text{He} \pi^+$ 0.12743 - 0.4168 Marx 86 cs</p> <p>${}^3\text{He} p \pi^0$ 0.2069 - 0.2651 Marx 86 angp</p> <p>${}^3\text{H} p \pi^+$ 0.1536 - 0.2605 Balestra 86 angp, cs 0.2069 - 0.2651 Marx 86 ang, mass 0.2605 Marx 86</p> <p>${}^3\text{He} n \pi^+$ 0.2069 - 0.2651 Marx 86 angp</p> <p>3p n 0.1536 - 0.2605 Balestra 86 angp, cs 0.2707 Weber 89 cs, p</p> <p>4p π^- 0.2189 - 0.3851 Kinney 86 angp, p</p> <p>2p 2n π^+ 0.1536 - 0.2605 Balestra 86 angp, cs</p>
<p>$\pi^+ n$</p> <p>X 1.4 - 5 Bayukov 85F a-dep, p</p> <p>p π^0 6 - 11.85 Fujisaki 88 pol < 200 Hohler 89 angp, pol, pwa</p> <p>n π^+ < 200 Hohler 89 angp, pol, pwa</p> <p>p η 6 - 11.85 Fujisaki 88 pol</p> <p>ΛK^+ 10.3 Bitsadze 86B angp, cs</p> <p>$\Sigma^0 K^+$ 10.3 Bitsadze 86B angp, cs</p> <p>p 2γ 6 - 11.85 Fujisaki 88 mass</p> <p>p $\pi^+ \pi^-$ 5.98 - 11.85 Delesquen 85 angp, dme, mass 6 - 12 Svec 84 -</p>	<p>$\pi^+ \pi^- X$ 3.9 Nakai 89 a-dep, mass</p> <p>p(spect) p π^0 6 - 11.85 Fujisaki 88</p> <p>p n π^+ 0.25 - 0.65 Boschitz 86 angp, dme, pol</p> <p>0.34 Mathie 85 angp, asym</p> <p>p(spect) p η 6 - 11.85 Fujisaki 88</p> <p>p ΛK^+ 10.3 Bitsadze 86B angp</p> <p>n $\Sigma^+ K^+$ 10.3 Bitsadze 86B angp</p> <p>p $\Sigma^0 K^+$ 10.3 Bitsadze 86B angp</p> <p>p(spect) p 2γ 6 - 11.85 Fujisaki 88 mass</p> <p>2p $\pi^+ \pi^-$ 0.2217 Ashery 88 angp, mass</p>	<p>$\pi^+ \text{He}$</p> <p>$\pi^+ X$ 0.4693 - 0.5985 Boswell 86 p</p> <p>$\pi^- X$ 0.2875 - 0.353 Gram 89 a-dep, cs</p> <p>$\pi^+ {}^6\text{Li}$</p> <p>inelastic 1.35 - 3.75 Gachurin 85 cs</p> <p>$\pi^- X$ 0.2875 - 0.353 Gram 89 a-dep, cs</p> <p>p X 1.5 Burgov 87 a-dep, angp, p</p> <p>deuteron X 1.5 Burgov 87 a-dep, angp, p</p> <p>${}^2\text{He}$ 0.1426 - 0.1695 Mcparland 85 angp 0.1426 - 0.2422 Mcparland 85B angp</p> <p>2p X 0.2537 Ransome 90 cs, p</p> <p>deuteron p X 0.2537 Ransome 90 cs, p</p> <p>He $2p$ 0.2537 Ransome 90 cs, p</p> <p>He⁺ $2p$ 0.2537 Ransome 90 cs, p</p> <p>2p $\pi^- X$ 0.5 - 1.5 Kobayashi 88B angp, cs, mass</p>
<p>π^+ deuteron</p> <p>ηX 10.5 Bitsadze 86 a-dep, p Akimenko 85 cs</p> <p>$\rho^0 X$ 3.9 Nakai 89 a-dep, cs</p> <p>$f_2(1270) X$ 3.9 Nakai 89 a-dep, cs</p> <p>$K^+ X$ 1.06 - 1.4 Pigot 85 mass</p>	<p>$\pi^+ {}^3\text{H}$</p> <p>${}^3\text{H} \pi^+$ 0.2445 - 0.3314 Pillai 88 angp</p> <p>$\pi^+ {}^5\text{He}$</p> <p>X 0.1947 - 0.248 Angelescu 90 cs</p> <p>$\pi^+ X$ 0.4693 - 0.5985 Boswell 86 p</p>	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^+ {}^6\text{Li} \rightarrow 3p X$ $\pi^+ {}^{15}\text{Ni} \rightarrow {}^{15}\text{Ni} \pi^+ \gamma$

$\pi^+ {}^6\text{Li}$				$\pi^+ \text{Be}$				$\pi^+ \text{C}$				
3p X	0.2537	Ransome 90	cs, p	$2K^+ K^- X$	120	Dijkstra 86C	mass	nucleus $\pi^- + \text{nucleus } p (p's) \pi^-$	2.9	Vorobiev 84C	ang, mult, p	
2p n X	0.2537	Ransome 90	cs, p	$K^+ K_S K^- X$	120	Dijkstra 86C	mass	$C \rho^+$	202.5	Huston 86	angp	
${}^3\text{H } 3p$	0.2537	Ransome 90	cs, p	$p K^+ K^- X$	120	Dijkstra 86C	mass	2γ X	200	Badier 85C	cs, pt	
4n X	0.2537	Ransome 90	cs, p	$\bar{p} K^+ K^- X$	120	Dijkstra 86C	mass			Bardadinotwi 85	cs, p, pt	
$\pi^+ \text{Li}$				$\pi^+ {}^{12}\text{C}$				$\pi^+ \pi^- X$	3.9	Nakai 89	a-dep, mass	
$\pi^+ X$	1.5	Buklej 86	angp, p	inelastic	1.35 - 3.75	Gachurin 85	cs	$J/\psi(1S) \gamma X$	530	De 89	mass	
ηX	10.5	Bitsadze 86	a-dep, p	ΛX	4	Manabe 89	angp, p, pol	$p \pi^- X$	3	Vorobiev 88E	ang, mass, p	
p X	0.8	Chrien 88	angp, p	hypernucleus K^+	1.054	Milner 85B	angp	$\Lambda K^+ X$	10.3	Bitsadze 86B	angp	
$\pi^+ \pi^- X$	3.9	Nakai 89	a-dep, mass	${}^{12}\text{O} \pi^-$	0.2189 - 0.3205	Mordechai 85	angp, p	$\Sigma^+ K^+ X$	10.3	Bitsadze 86B	angp	
$\pi^+ {}^7\text{Li}$				${}^{12}\text{O} \pi^-$	0.2189 - 0.3205	Mordechai 85	angp	$\Sigma^0 K^+ X$	10.3	Bitsadze 86B	angp	
inelastic	1.35 - 3.75	Gachurin 85	cs	$\pi^+ \text{C}$				p \bar{p} X	30	Beusch 86	a-dep, ang, mass, p, pt	
$\pi^0 X$	0.4168 - 0.6753	Rokni 88	a-dep, angp	γX	200	Badier 85F	pt	2p X	3 - 7.5	Bayukov 86	ang	
$\pi^- X$	0.2875 - 0.353	Gram 89	a-dep, cs			Bardadinotwi 85	p, pt		7.5	Bayukov 89C	ang, angp, p	
${}^7\text{Be } \pi^0$	0.1023 - 0.141	Irom 85	angp	$\pi^0 X$	1.1	Golubeva 90	p	deuteron p X	7.5	Bayukov 89C	ang, angp, p	
$e^- e^+ X$	0.5005	Baturin 88	angp, cs		200	Badier 85E	cs, p, pt					
${}^6\text{Li } p e^- e^+$	0.5005	Baturin 88	angp, cs			Badier 85F	p, pt					
$\pi^+ \text{Be}$				$\pi^+ X$	1 - 6	Bayukov 85E	a-dep, angp, p	${}^3\text{H } p X$	7.5	Bayukov 89C	ang, angp, p	
inelastic	1.35 - 3.75	Gachurin 85	cs		1.5	Buklej 86	angp, p	2deuteron X	7.5	Bayukov 89C	ang, angp, p	
$\pi^- X$	0.2875 - 0.353	Gram 89	a-dep, cs		200	Bardadinotwi 85	p, pt	nucleus $\pi^+ \pi^- + \text{nucleus } p (p's) \pi^+ \pi^-$	2.9	Vorobiev 84C	ang, mult, p	
ηX	10.5	Bitsadze 86	a-dep, p	$\pi^- X$	0.2875 - 0.353	Gram 89	a-dep, cs	$\mu^- \mu^+ \gamma X$	530	De 89	mass	
ϕX	120 - 200	Dijkstra 86	mult, p, pt		1 - 6	Bayukov 85E	a-dep, angp, p	3p X	0.34	Tacik 86	angp, p	
η mult[fragt]	10.5	Akimenko 89	a-dep, ang, angp, cs, p		200	Bardadinotwi 85	p, pt	$\pi^+ {}^{14}\text{C}$				
$\phi \pi^+ X$	120	Dijkstra 86C	mass	$\rho^0 X$	3.9	Nakai 89	a-dep, cs	$\pi^0 X$	0.4168 - 0.6753	Rokni 88	a-dep, angp	
$\phi \pi^- X$	120	Dijkstra 86C	mass	$f_2(1270) X$	3.9	Nakai 89	a-dep, cs	$\pi^- X$	0.4084 - 0.6497	Williams 89B	angp, mass	
$K^+ \phi X$	120	Dijkstra 86C	mass	$J/\psi(1S) X$	530	De 89	a-dep, cs, p	${}^{14}\text{C } \pi^+$	0.1283	Mishra 85	angp	
$K^- \phi X$	120	Dijkstra 86C	mass	$\chi(\text{unspec}) X$	530	De 89	-	${}^{14}\text{O } \pi^-$	0.1271	Leitch 85	angp, cs	
$K^+ K^- X$	120 - 200	Dijkstra 86	ang, dme, mass	p X	0.6	Golubeva 89	angp	${}^{14}\text{C } \pi^+ \gamma$	0.4084 - 0.6497	Williams 89B	angp	
$K_S \phi X$	120	Dijkstra 86C	mass		0.8	Chrien 88	angp, p	$\pi^+ {}^{15}\text{Ni}$				
p ϕX	120	Dijkstra 86C	mass	$\bar{p} X$	1 - 6	Bayukov 85C	a-dep, angp, p	Nit$^+$ π^+	0.2696	Seestrommorr 85	angp	
$\bar{p} \phi X$	120	Dijkstra 86C	mass		1.4 - 5	Bayukov 85F	a-dep, p	${}^{15}\text{O } \pi^0$	0.1283 - 0.4063	Redwine 86	angp	
$2\pi^0$ mult[fragt]	10.5	Akimenko 89	a-dep, cs	n X	1 - 6	Burgov 87	a-dep, angp, p	${}^{15}\text{Ni} \pi^+ \gamma$	0.2696	Seestrommorr 85	angp	
$K^+ K^- \pi^+ X$	120	Dijkstra 86C	mass	ΛX	3	Vorobiev 89C	angp					
$K^+ K^- \pi^- X$	120	Dijkstra 86C	mass			Vorobiev 88E	p, pol	nucleus $\pi^+ + \text{nucleus } p (p's) \pi^+$	2.9	Vorobiev 84C	ang, mult, p	
$K^+ 2K^- X$	120	Dijkstra 86C	mass	deuteron X	1.5	Burgov 87	a-dep, angp, p					

$\pi^+ {}^{16}\text{O} \rightarrow \pi^- X$ $\pi^+ {}^{60}\text{Ni} \rightarrow \pi^0 X$

$\pi^+ {}^{16}\text{O}$	$\pi^+ \text{Mg}$	$\pi^+ \text{Si}$
$\pi^- X$ 0.2189 - 0.3851 Wood 85 0.3583 Redwine 86 14Nit 2p 0.1421 Wharton 85 15Nit p π^+ 0.353 Redwine 86 p $\pi^0 \gamma X$ 0.353 Redwine 86 15Nit p $\pi^+ \gamma$ 0.353 Redwine 86	mult[grey] charged $^- X$ Brick 89 mult[grey] shower X 200 Brick 90 Brick 89 mult[grey] charged $^+$ charged $^- X$ 200 Brick 89	${}^{18}\text{F}$ 9nucleon 0.1283 - 0.5212 Dropecky 86 $\pi^+ {}^{32}\text{S}$ ${}^{32}\text{Ar} \pi^-$ 0.2189 - 0.3205 Mordechai 85 ${}^{32}\text{Ar}^* \pi^-$ 0.2189 - 0.3205 Mordechai 85
$\pi^+ \text{O}$	$\pi^+ \text{Al}$	$\pi^+ {}^{37}\text{Cl}$
$\pi^- X$ 0.2875 - 0.353 Gram 89 p X 0.8 Chrien 88 1.5 Burgov 87 deuteron X 1.5 Burgov 87	mult[charged $^-$] X 250 Ajinenko 90B $\pi^0 X$ 1.1 Golubeva 90 ηX 10.5 Bitsadze 86 $\rho^0 X$ 3.9 Nakai 89 $f_2(1270) X$ 3.9 Nakai 89 p X 0.8 Chrien 88 4 Tokushuku 90 30 Abreu 85 $\bar{p} X$ 30 Abreu 85 ΛX 3 Vorobiev 89C deuteron X 4 Tokushuku 90 $\pi^+ \pi^- X$ 3.9 Nakai 89 $J/\psi(1S) \gamma X$ 530 De 89 p $\bar{p} X$ 30 Beusch 86 mult[grey] mult[charged] X 250 Ajinenko 90B mult[grey] mult[charged $^-$] X 250 Ajinenko 90B $\mu^- \mu^+ \gamma X$ 530 De 89	$\pi^+ \text{Cl}$ $\chi(\text{unspec}) X$ 530 De 89 $\pi^+ {}^{40}\text{Ar}$ ${}^{40}\text{Ar} \pi^+$ 0.2875 Germond 85C $\pi^+ {}^{40}\text{Ca}$ $\pi^- X$ 0.2189 - 0.3851 Wood 85 ${}^{40}\text{Ti}^* \pi^-$ 0.2189 - 0.3205 Mordechai 85 ${}^{40}\text{Ti} \pi^-$ 0.2189 - 0.3205 Mordechai 85 $\text{Ca}^* \pi^+$ 0.2306 Ullmann 85 ${}^{40}\text{Ca} \pi^+ \gamma$ 0.2306 Ullmann 85
$\pi^+ {}^{18}\text{O}$	$\pi^+ {}^{27}\text{Al}$	$\pi^+ \text{Ca}$
$\pi^- X$ 0.3583 Redwine 86 0.4084 - 0.6497 Williams 89B 18Ne π^- 0.4084 - 0.6497 Williams 89B	inelastic 1.35 - 3.75 Gachurin 85 $\pi^0 X$ 0.4168 - 0.6753 Rokni 88 24Na 3nucleon 0.1283 - 0.5212 Dropecky 86 18F1 9nucleon 0.1283 - 0.5212 Dropecky 86	$\pi^- X$ 0.2875 - 0.353 Gram 89 $\pi^+ {}^{46}\text{Sc}$ ${}^{44}\text{Ca} p \pi^+$ 0.1947 - 0.4168 Ohkubo 85
$\pi^+ \text{Ne}$	$\pi^+ \text{Mg}$	$\pi^+ \text{Ti}$
$K^0 X$ 10.5 Fredriksson 87 p X 30 Tkaczyk 96 mult[p] $\pi^\pm X$ 10.5 - 200 Fredriksson 87	charged X 200 Brick 89 charged $^- X$ 200 Brick 90 Brick 89 mult[charged] X 200 Brick 89 mult[charged $^-$] X 200 Brick 89 mult[shower] X 200 Brick 89 shower X 200 Brick 90 Brick 89 2charged X 200 Brick 90 mult[grey] charged $^- X$ 200 Brick 90	$\pi^- X$ 0.2875 - 0.353 Gram 89 $\pi^+ {}^{48}\text{Ca}$ ${}^{47}\text{Ca} n \pi^+$ 0.1947 - 0.4168 Ohkubo 85 $\pi^+ {}^{58}\text{Ni}$ 2p X 0.2651 Redwine 86 $\pi^+ {}^{60}\text{Ni}$ $\pi^0 X$ 0.4168 - 0.6753 Rokni 88
$\pi^+ {}^{24}\text{Mg}$		
${}^{24}\text{Si}^* \pi^-$ 0.2189 - 0.3205 Mordechai 85 ${}^{24}\text{Si} \pi^-$ 0.2189 - 0.3205 Mordechai 85 (blacks) mult[grey] mult[shower] (neutrals) 100 Biswas 86		
$\pi^+ \text{Mg}$		
charged X 200 Brick 89 charged $^- X$ 200 Brick 90 Brick 89 mult[charged] X 200 Brick 89 mult[charged $^-$] X 200 Brick 89 mult[shower] X 200 Brick 89 shower X 200 Brick 90 Brick 89 2charged X 200 Brick 90 mult[grey] charged $^- X$ 200 Brick 90		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\pi^+ \text{Cu} \rightarrow \pi^+ \text{X}$ $\pi^+ \text{Pb} \rightarrow \pi^+ \text{X}$

$\pi^+ \text{Cu}$		$\pi^+ \text{Ag}$		$\pi^+ \text{Wt}$		
$\pi^+ \text{X}$ 1 - 6	Bayukov 85E	mult[charged ⁻] X 200	Brick 89	$J/\psi(1S) \text{X}$ 225	Grab 87 Louis 86 Biino 87	cs cs p, pol
1.5	Buklej 86	mult[shower] X 200	Brick 89	252		
$\pi^- \text{X}$ 1 - 6	Bayukov 85E	shower X 200	Brick 90 Brick 89	$D^0 \text{X}$ 225	Grab 87 Louis 86	cs cs
ηX 10.5	Bitsadze 86	2charged X 200	Brick 90	$\bar{D}^0 \text{X}$ 225	Louis 86	cs
$\rho^0 \text{X}$ 3.9	Nakai 89	mult[grey] charged ⁻ X 200	Brick 90 Brick 89	$\mu^- \mu^+ \text{X}$ 225	Grab 87 Louis 86 Heinrich 89 Biino 87	mass mass p ang, mass, p
$f_2(1270) \text{X}$ 3.9	Nakai 89	mult[grey] shower X 200	Brick 90 Brick 89	250 252		
$\chi(\text{unspec}) \text{X}$ 530	De 89	mult[grey] charged ⁺ charged ⁻ X 200	Brick 90 Brick 89	$2\mu^+ \text{X}$ 225	Louis 86	ang
$p \text{X}$ 0.6 - 1 1 - 6	Golubeva 89 Bayukov 85C			$2\mu^- \text{X}$ 225	Louis 86	ang
1.4 - 5	Bayukov 85F	$\pi^+ {}^{108}\text{Ag}$		$\pi^+ \text{Au}$		
1.5	Burgov 87	(blacks) mult[grey] mult[shower] (neutrals) 100	Biswas 86	charged X 200	Brick 89	mult
30	Abreu 85	$\pi^+ \text{Cd}$		charged ⁻ X 200	Brick 90 Brick 89	cor, mult, p mult
$\bar{p} \text{X}$ 30	Abreu 85	ΛX 3	Vorobiev 89C	mult[charged] X 200 250	Brick 89 Ajinenko 90B	mult ang, mult, p
$n \text{X}$ 1 - 6	Bayukov 85C	$\pi^+ {}^{118}\text{Sn}$		mult[charged ⁻] X 200 250	Brick 89 Ajinenko 90B	mult ang, mult, p
ΛX 3	Vorobiev 89C	$\text{Sn}^+ \pi^+$ 0.2306	Ullmann 85	mult[shower] X 200	Brick 89	mult
deuteron X 1.5	Burgov 87	${}^{118}\text{Sn} \pi^+ \gamma$ 0.2306	Ullmann 85	shower X 200	Brick 90 Brick 89	cor, mult, p mult
η mult[fragt] 10.5	Akimenko 89	$\pi^+ \text{Sn}$		2charged X 200	Brick 90	cor, mult, p
$\text{Cu } \rho^+$ 202.5	Huston 86	$p \text{X}$ 30	Abreu 85	mult[grey] charged ⁻ X 200	Brick 90 Brick 89	cor, mult, p mult
$J/\psi(1S) \gamma \text{X}$ 530	De 89	$\bar{p} \text{X}$ 30	Abreu 85	mult[grey] charged ⁻ X 200	Brick 90 Brick 89	cor, mult, p mult
$p \bar{p} \text{X}$ 30	Beusch 86	$p \bar{p} \text{X}$ 30	Beusch 86	mult[grey] mult[charged] X 250	Ajinenko 90B	ang, mult, p
$2\pi^0$ mult[fragt] 10.5	Akimenko 89	$\pi^+ {}^{120}\text{Sn}$		mult[grey] mult[charged ⁻] X 250	Ajinenko 90B	ang, mult, p
$\mu^- \mu^+ \gamma \text{X}$ 530	De 89	$\pi^0 \text{X}$ 0.4168 - 0.6753	Rokni 88	mult[grey] mult[charged ⁻] X 250	Ajinenko 90B	ang, mult, p
$\text{Cu } 2\pi^+ \pi^-$ 202.5	Zielinsky 86	$\pi^+ \text{Xe}$		mult[grey] shower X 200	Brick 90 Brick 89	cor, mult, p mult
$\pi^+ {}^{66}\text{Zn}$		charged X 2.34 - 9	Miller 87C	mult[grey] charged ⁺ charged ⁻ X 200	Brick 89	mult
inelastic 1.35 - 3.75	Gachurin 85	$\pi^0 \text{X}$ 2.34 - 9	Miller 87C			
$\pi^+ {}^{90}\text{Zr}$		$\pi^+ \text{X}$ 2.34 - 9	Miller 87C	$\pi^+ {}^{107}\text{Au}$		
$\pi^0 \text{X}$ 0.4168 - 0.6753	Rokni 88	$\pi^- \text{X}$ 2.34 - 9	Miller 87C	fragt X 0.1426 - 0.1947	Hicks 85	-
$\pi^+ \text{Rh}$		$p \text{X}$ 2.34 - 9	Miller 87C	(blacks) mult[grey] mult[shower] (neutrals) 100	Biswas 86	cs
$\pi^- \text{X}$ 0.2875 - 0.753	Gram 89	nucleus $\pi^+ + \text{nucleus } p(p's) \pi^+$ 2.9	Vorobiev 84C	$\pi^+ {}^{207}\text{Pb}$		
$\pi^+ \text{Ag}$		nucleus $\pi^- + \text{nucleus } p(p's) \pi^-$ 2.9	Vorobiev 84C	inelastic 1.35 - 3.75	Gachurin 85	cs
charged X 200	Brick 89	nucleus $\pi^+ \pi^- + \text{nucleus } p(p's) \pi^+ \pi^-$ 2.9	Vorobiev 84C	$\pi^+ \text{Pb}$		
charged ⁻ X 200	Brick 90 Brick 89			$\pi^+ \text{X}$ 1 - 6	Bayukov 85E	a-dep, ang, p
mult[charged] X 200	Brick 89	$\pi^+ {}^{181}\text{Tl}$		1.5	Buklej 86	a-dep, ang, p
		inelastic 1.35 - 3.75	Gachurin 85	$\pi^- \text{X}$ 0.2875 - 0.353	Gram 89	a-dep, cs

$\pi^+ \text{Pb} \rightarrow \pi^- \text{X}$ $K^- e^- \rightarrow K^- e^-$

$\pi^+ \text{Pb}$	$\pi^+ {}^{238}\text{U}$	π^+ nucleus
$\pi^- \text{X}$ 1 - 6 Bayukov 85E a-dep, angp, p	inelastic 1.35 - 3.75 Gachurin 85	nucleus $b_1(1235)^+$ 43 - 202 Landsberg 86
$\chi(\text{unspec}) \text{X}$ 530 De 89	fragm X 0.1426 - 0.1947 Hicks 85	nucleus $\alpha_1(1260)^+$ 43 - 202 Landsberg 86
$p \text{X}$ 0.6 Golubeva 89 angp 1 - 6 Bayukov 85C a-dep, angp, p 1.4 - 5 Bayukov 85F a-dep, p 1.5 Burgov 87 a-dep, angp, p 4 Tokushuku 90 angp 30 Abreu 85 a-dep, p, pt	$\pi^+ \text{U}$ X 1.4 - 5 Bayukov 85F a-dep, p $\pi^+ \text{X}$ 1 - 6 Bayukov 85E a-dep, angp, p $\pi^- \text{X}$ 1 - 6 Bayukov 85E a-dep, angp, p p X 1 - 6 Bayukov 85C a-dep, angp, p 1.4 - 5 Bayukov 85F a-dep, p n X 1 - 6 Bayukov 85C a-dep, angp, p	nucleus $\alpha_2(1320)^+$ 43 - 202 Landsberg 86 nucleus $K^*(892)^+$ 43 - 202 Landsberg 86 nucleus $K^*(1370)^+$ 43 - 202 Landsberg 86 $2\gamma \text{X}$ 10.5 Akimenko 89 mass, p $\mu^- \mu^+ \text{X}$ 200 Fredriksson 87 a-dep, angp 200 - 225 Fredriksson 87 a-dep, angp, pt 252 Biino 87 ang, mass, p $2\pi^0 \text{X}$ 10.5 Akimenko 89 mass, p
$\bar{p} \text{X}$ 30 Abreu 85 a-dep, p, pt		He mult[hrackr] X 7.5 Takibaev 90 p
$n \text{X}$ 1 - 6 Bayukov 85C a-dep, angp, p 1.4 - 5 Bayukov 85F a-dep, p		nucleus $\pi^+ \pi^0$ 43 - 202 Landsberg 86 mass nucleus $\eta \pi^+$ 43 - 202 Landsberg 86 mass nucleus $\rho^+ \pi^0$ 43 - 202 Landsberg 86 mass nucleus $\omega \pi^+$ 43 - 202 Landsberg 86 mass nucleus $K^+ K_S$ 43 - 202 Landsberg 86 mass
ΛX 3 Vorobiev 89C angp Vorobiev 88E p, pol	π^+ nucleus inelastic 5 - 300 Fredriksson 87 a-dep, cs charged- X 10.5 - 200 Fredriksson 87 mult ${}^{37}\text{Ar X}$ 0.3957 - 0.5108 Gavrin 89 cs, mult γX 200 Fredriksson 87 angp, pt $e^+ \text{X}$ 0.077 Azuelos 86 mass $\mu^+ \text{X}$ 0.077 Azuelos 86 mass $\pi^0 \text{X}$ 200 Fredriksson 87 angp, pt $\pi^+ \text{X}$ 100 Fredriksson 87 angp $\pi^- \text{X}$ 100 Fredriksson 87 angp ηX 200 Fredriksson 87 angp, pt $J/\psi(1S) \text{X}$ 252 Biino 87 p, pol $K^+ \text{X}$ 100 Fredriksson 87 angp $K^- \text{X}$ 100 Fredriksson 87 angp p X 10.5 - 64 Fredriksson 87 mult 30 - 100 Fredriksson 87 angp, p $\bar{p} \text{X}$ 30 - 100 Fredriksson 87 angp, p ΛX 30 Fredriksson 87 angp, p $\bar{\Lambda} \text{X}$ 30 Fredriksson 87 angp, p deuteron X 1 - 6 Gavrilo 85 a-dep, angp, p He X 7.5 Takibaev 90 p jet X 200 Fredriksson 87 a-dep, angp, pt nucleus π^- 0.2189 - 0.3205 Mordechai 85 angp, p nucleus ρ^+ 43 - 202 Landsberg 86	
deuteron X 1.5 Burgov 87 a-dep, angp, p 4 Tokushuku 90 angp hadron X 200 Akesson 88B angp, et η mult[fragm] 10.5 Akimenko 89 a-dep, ang, angp, cs, p $\text{Pb } \rho^+$ 202.5 Huston 86 angp $J/\psi(1S) \gamma \text{X}$ 530 De 89 a-dep, cs, mass, p $p \pi^- \text{X}$ 3 Vorobiev 88E ang, mass, p $p \bar{p} \text{X}$ 30 Beusch 86 a-dep, ang, mass, p, pt $2p \text{X}$ 3 - 7.5 Bayukov 86 ang 7.5 Bayukov 89C ang, angp, p deuteron p X 7.5 Bayukov 89C ang, angp, p ${}^3\text{H } p \text{X}$ 7.5 Bayukov 89C ang, angp, p 2deuteron X 7.5 Bayukov 89C ang, angp, p $2\pi^0$ mult[fragm] 10.5 Akimenko 89 a-dep, cs $\mu^- \mu^+ \gamma \text{X}$ 530 De 89 mass $\text{Pb } 2\pi^+ \pi^-$ 202.5 Zielinsky 86 angp, mass, pwa	$\pi^\pm \text{C}$ inelastic (106.4 - 473.2) Avakyan 89C a-dep, cs $\pi^\pm \text{Ne}$ $\Lambda \text{X} + \Sigma^0 \text{X}$ 10.5 Fredriksson 87 mult $\pi^\pm \text{Fe}$ inelastic (233.9 - 1021) Avakyan 89C a-dep, cs $\pi^\pm \text{Pb}$ inelastic (479.9 - 1974) Avakyan 89C a-dep, cs πp $\mu^- \mu^+ \text{X}$ 150 - 280 Rutherford 85 mass, p, pt πFe inelastic (233.9 - 723.1) Avakyan 85D cs Avakyan 85E cs $\pi^0 \text{X}$ (233.9 - 723.1) Avakyan 85D cs π nucleus shower 300 - 1600 Avakyan 85F cs πX 2 - 200 Fredriksson 87 mult $K^- e^-$ $K^- e^-$ 250 Amendolia 86B angp	
$\pi^+ {}^{208}\text{Pb}$ $\pi^0 \text{X}$ 0.4168 - 0.6753 Rokni 88 a-dep, angp		
$\pi^+ {}^{209}\text{Bi}$ inelastic 1.35 - 3.75 Gachurin 85 cs fragm X 0.1426 - 0.1947 Hicks 85		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$K^- p \rightarrow \text{charged } X$ $K^- p \rightarrow \Lambda \text{ meson}^0$

$K^- p$		$K^- p$		$K^- p$	
charged X		$\Sigma^0 \gamma$		$\Lambda f_1(1510)$	
80 - 140	Apsimon 89	0	Whitehouse 89	11	Aston 88I
110	angp, cs, pt	$\Sigma^+ \pi^-$			Aston 88J
	Tannenbaum 89	0	Hessey 89		Augustin 88C
mult[charged] X		0.688 - 0.833	Koiso 84		Toki 88B
110	Tannenbaum 89	$\Sigma^- \pi^+$		$p K^*(1680)^-$	Aston 86B
$\pi^0 X$		0.68	Gall 88	?	Bird 88
40	Amaglobeli 89	0.688 - 0.833	Hertzog 88	$n K^*(1680)^0$	
	Apokin 89		Koiso 84	11	Aston 88I
	Apokin 88B				Aston 86B
58	angp, asym, p	$p K^-$?	Aston 88I
	Paub 85	8 - 12	Armstrong 87C	$p K_S^*(1780)^-$	
$\pi^+ X$		9.9	angp, cs	11	Aston 89B
0.688 - 0.833	Koiso 84	20	Armstrong 86F		Aston 88C
58	Paub 85	40	Baller 88		Aston 88I
$\pi^- X$		$\Sigma(1660 \text{ } ^{-11})^+ \pi^-$	angp, cs, pt		Aston 89B
0.688 - 0.833	Koiso 84	4.2	Asad 85		Aston 88C
58	Paub 85		Antipov 87B		Aston 88I
ϕX		$p K^*(892)^-$	angp, cs		Aston 86B
110	Banerjee 86	?			Aston 88I
$f_2'(1525) X$		$n \bar{K}^*(892)^0$			Bird 88
40	Toki 88B	11	Aston 89B	$n \bar{K}_S^*(1780)^0$	Aston 89B
$K^+ X$			Aston 88B	11	Aston 88B
58	Paub 85		Aston 86		Aston 88I
$K^- X$			Aston 86B		Aston 86
58	Paub 85		Aston 88I		Aston 86B
$K^*(892)^- X$		$\Lambda f_0(975)$			Aston 88I
?	Chliapnikov 90	11	Aston 88I	$\Lambda f_2(1720)$	Aston 88H
$\bar{K}^*(892)^0 X$		$\Lambda \phi$	Aston 88J	11	Aston 86B
110	Banerjee 86	11	Aston 88I		Hitlin 88
	Chliapnikov 90		Aston 88J	$p K_0^*(1950)^-$	
$K_S X$		$n \bar{K}_1(1400)^0$	Aston 86B	?	Bird δ
?	Chliapnikov 90	11	Aston 88I	$n \bar{K}_0^*(1950)^0$	
$D_S^\pm X$?	Aston 87B		Aston 88I
200	Becker 87	$p K^*(1370)^-$		$\Lambda \phi_3(1850)$	
ΛX		$n \bar{K}^*(1370)^0$		11	Aston 88D
3.93 - 176	Panagiotou 89	11	Aston 88I		Aston 88I
12 - 16	Armstrong 85		Aston 86B		Aston 88J
110	Haupt 85		Aston 88I	$n \bar{K}_4^*(2045)^0$	Aston 86B
176	Gourlay 86		Aston 88I	11	Aston 89B
$\Sigma(1385 P_{13})^+ X$		$p K_S^*(1430)^-$			Aston 86B
110	Banerjee 86B	11	Aston 88C		Aston 88I
	cs, mult, p, pt	?	Aston 88I		Aston 86
$\Sigma(1385 P_{13})^- X$		$n \bar{K}_2^*(1430)^0$			Aston 86B
110	Banerjee 86B	11	Bird 88		Aston 88I
	cs, mult, p, pt			$n \bar{K}_8^*(2380)^0$	Aston 87B
$\Sigma(3170 B)^+ X$				11	Aston 89B
?	Aston 85		Aston 89B		Aston 88B
$\Xi^- X$			Aston 88B		Aston 88I
5	Bensinger 85		Aston 88I		Aston 88I
	ang, cs, p, pt		Aston 86	$\Lambda f_4(2220)$	
11	Aston 85B		Aston 86B	11	Aston 88C
	ang, cs, p, pt		Aston 88I		Aston 88I
$\Xi(1530 P_{13})^0 X$		$n \bar{K}_0^*(1430)^0$			Aston 88B
11	Aston 85B	11	Aston 88B		Aston 88I
	ang, cs, p, pt		Aston 88I	$n \bar{K}_3^*(1980)^0$	
?	Aston 85	$\Lambda h_1(1380)$		11	Aston 88I
$\Xi(1820 D_{13})^- X$		11	Aston 88I	$n \bar{K}^*(\text{unspec})^0$	
?	Aston 85		Aston 88J	11	Aston 86
$\Omega^- X$		$\Lambda f_0(1525)$	Augustin 88C	$\Lambda (\pi^0 s)$	
11	Aston 85B	11	Aston 88I	3.93 - 176	Panagiotou 89
	ang, cs, p, pt		Aston 88J		p, pol, pt
$\Omega(2250)^- X$		$\Lambda f_2'(1525)$		$Y^*(\text{unspec}) f_1(1420)$	
11	Aston 89	11	Aston 88C	32.5	Bityukov 85C
	cs		Aston 88I	$Y^*(\text{unspec})^0 f_2'(1525)$	cs, mass
$\Omega(2470)^- X$			Aston 88I	40	Bolonkin 88
11	Aston 89		Aston 88J	$Y^*(\text{unspec})^0 f_2(1720)$	cs
	cs		Augustin 88C	40	Bolonkin 88
$\Omega^*(\text{unspec})^- X$			Toki 88B	$\Lambda KK(L=0)$	cs
11	Aston 88E		Aston 86B	11	Aston 88H
	Aston 87		Aston 88I	$\Lambda \text{ meson}^0$	cs
$\Lambda \gamma$		$\Lambda f_2'(1525) + \Sigma^0 f_2'(1525)$		11	Aston 88
0	Whitehouse 89	40	Bolonkin 88		mass

$K^- p \rightarrow \Lambda$ meson⁰

$K^- p \rightarrow \Lambda K^+ K_S \pi^-$

$K^- p$			$K^- p$			$K^- p$			
Λ meson ⁰			$\Xi^- K^+ X$			$\Lambda 2K_S$			
	Aston 88F		11	Aston 85	mass	11	Aston 88C	mass	
	angp, mass, pwa		$\Xi^- K^0 X$				Aston 88F	mass	
32.5	Toki 88B		11	Aston 85	mass		Aston 88H	angp, mass	
	Landsberg 88	angp, cs	$\Xi(1530 F_{13})^0 K^- X$				Aston 88I	mass, pwa	
			11	Aston 89	mass		Aston 88J	mass, pwa	
$Y^*(\text{unspec})$ meson ⁰				Aston 87	mass		Aston 86B	mass, pwa	
40	Bolonkin 89	cs	$p K_S X$			$\Lambda K^*(892) K$			
$f_2^*(1525)$ strange			32.1	Ukhanov 86	ang, p, pt	11	Aston 86B	mass, pwa	
40	Bolonkin 86	cs	$\Sigma(1385 F_{13})^+$ mult[charged] (neutrals)			11	Aston 86B	mass, pwa	
$f_2(1720)$ strange			110	Banerjee 86B	cs, mult				
40	Bolonkin 86	cs	$\Sigma(1385 F_{13})^-$ mult[charged] (neutrals)			40	Bolonkin 88	mass, pwa	
$\Lambda X(2200)$			110	Banerjee 86B	cs, mult	$\Lambda \bar{\Lambda} Y^*(\text{unspec})$			
11	Toki 88B	-	Ξ^- mult[charged] (neutrals)			40	Bolonkin 89	ang, mass	
$\Lambda C(1480)^0$			11	Aston 85B	cs, mult	$2K_S$ strange			
32.5	Landsberg 88	angp, cs	$\Xi(1530 F_{13})^0$ mult[charged] (neutrals)			40	Bolonkin 86	cs	
$2\pi^+ X$			11	Aston 85B	cs, mult	2charged (charged) (neutrals)			
32.1	Ukhanov 86	ang	Ω^- mult[charged] (neutrals)			80-140	Apsimon 90	col, pt	
$2\pi^- X$			11	Aston 85B	cs, mult	$K^+ \bar{K}^0 \pi^- X$			
32.1	Ukhanov 86	ang	$n K^- \pi^+$			11	Aston 85	ang, angp, mass, pwa	
$\pi^+ \pi^- X$			11	Aston 89B	mass, pwa	$K^0 K^- \pi^+ X$			
11	Sinervo 86	-		Aston 88B	pwa	11	Aston 85	ang, angp, mass, pwa	
32.1	Ukhanov 86	ang, p, pt	$p \bar{K}^0 \pi^-$			11	Aston 89E	mass	
176	Gourlay 86	mass	11	Aston 881	mass, pwa	$\Omega^- \pi^+ \pi^- X$			
$2\pi^+ X + 2\pi^- X$			$\Lambda(1405 S_{01}) \pi^+ \pi^-$			11	Aston 89	mass	
32.1	Ukhanov 86	p, pt	4.2	Hemingway 84	mass	$\Xi^- K^- \pi^+ X$			
$a_0(980)^+ \pi^- X$			$n \bar{K}^*(892)^0 \pi^0$			11	Aston 89	mass	
?	Aston 85	-	?	Aston 86B	-	$\Lambda K \bar{K} X$			
$a_0(980)^- \pi^+ X$			$n K^*(892)^- \pi^+$			110	Haupt 85	p	
?	Aston 85	-	11	Aston 86B	mass, pwa	$\pi^+ \pi^-$ mult[charged] (neutrals)			
$\phi \pi^- X$			$p K^- \eta$			32.1	Ukhanov 86	ang, mult, p	
110	Banerjee 86	cs, mass	11	Aston 89B	-	$2\pi^+$ mult[charged] (neutrals) +			
$\bar{K}^0 \pi^- X$			$n \bar{K}^0 \rho^0$			32.1	Ukhanov 86	ang, mult, p	
11	Sinervo 86	-	11	Aston 86B	mass, pwa	$\Sigma^+ \pi^+ 2\pi^-$			
$K^+ K^- X$			$p K^- \omega$			4.2	Hemingway 84	ang, mass, p	
110	Banerjee 86	cs, mass	11	Aston 89B	-	$\Sigma^- 2\pi^+ \pi^-$			
$K^*(892)^+ K^- X$			$\Lambda \pi^0 (\pi^0 s)$			4.2	Hemingway 84	ang, mass, p	
?	Aston 85	-	110	Haupt 85	p	$p K^- \pi^+ \pi^-$			
$\bar{K}^*(892)^0 K^+ X$			$\Lambda K^+ K^-$			32.1	Ma 86	p	
?	Aston 85	-	11	Aston 88D	mass, pwa		Patalakha 85	ang, angp, mult, p, pt	
$K^*(892)^0 \bar{K}^0 X$				Aston 88F	angp, mass, pwa		Bogolyubsky 84D	mass, p, pt	
?	Aston 85	-	$\Lambda K^*(892)^0 \bar{K}^0$			$n \bar{K}^0 \pi^+ \pi^-$			
$K_S \pi^+ X$			11	Aston 88F	angp, mass, pwa	4.2	Hemingway 84	ang, mass, p	
32.1	Ukhanov 86	ang, p, pt	$\Lambda \bar{K}^*(892)^0 K^0$			11	Aston 89B	mass, pwa	
$K_S \pi^- X$			11	Aston 88J	mass, pwa		Aston 88I	mass, pwa	
32.1	Ukhanov 86	ang, p, pt	$p K_S \pi^-$				Aston 87B	pwa	
$K^*(892) K^0 X$			11	Augustin 88C	mass, pwa		Aston 86B	mass, pwa	
?	Aston 85	-	hyperon $\phi \pi^0$				Aston 86B	mass, pwa	
$2K_S X$			32.5	Bituykov 86B	mass, p		Sinervo 86	-	
40	Toki 88B	mass	$\Lambda K^*(892)^0 K_S + \Lambda K^*(892)^- K^+$			$\Lambda K^+ K^- \gamma$			
$p \pi^+ X$			11	Toki 88B	mass	32.5	Landsberg 88	ang, angp, mass	
32.1	Ukhanov 86	ang, p, pt	$\Lambda K \bar{K}$			32.5	Landsberg 88	ang, angp, mass	
$p \pi^- X$			11	Bird 88	mass, pwa	$\Lambda K^+ K^- \pi^0$			
32.1	Ukhanov 86	ang, p, pt	hyperon $\phi \pi^0$			32.5	Landsberg 88	ang, angp, mass	
176	Gourlay 86	mass	$\Lambda K^*(892)^0 K_S + \Lambda K^*(892)^- K^+$			$\Lambda K^+ \bar{K}^0 \pi^- + \Lambda K^0 K^- \pi^+$			
$\bar{p} \pi^+ X$			11	Toki 88B	mass	11	Aston 88	mass, pwa	
176	Gourlay 86	mass	$\Lambda K^*(892)^0 K_S + \Lambda K^*(892)^- K^+$			$Y^*(\text{unspec}) K^+ K^- \pi^0$			
$n \pi^+ X$			11	Toki 88B	mass	32.5	Bituykov 85C	cs, mass	
11	Sinervo 86	-	$\Lambda K \bar{K}$			$\Lambda K^+ K_S \pi^-$			
$\Lambda \pi^+ X$			11	Toki 88B	mass	11	Aston 88D	mass, pwa	
32.1	Ukhanov 86	ang				Aston 88I	mass, pwa		
110	Banerjee 86B	mass, p, pt							
$\Lambda \pi^- X$									
32.1	Ukhanov 86	ang							
110	Banerjee 86B	mass, p, pt							
$\Xi^- \pi^+ X$									
11	Aston 85	mass							
$\Xi(1530 F_{13})^0 \pi^- X$									
11	Aston 85	mass							

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$K^- p \rightarrow \Lambda K^+ K_S \pi^-$ $K^- C \rightarrow \text{charged}^+ X$

$K^- p$	K^- nucleon	$K^- \text{ } ^9\text{Be}$
$\Lambda K^+ K_S \pi^-$ Aston 88J mass, pwa Augustin 88C mass, pwa Toki 88B mass Aston 86B mass, pwa	hyperon meson ⁰ 32.5 Landsberg 87 angp, cs, pwa	$^9\text{Li}_5$? Pniewski 85 -
$\Lambda K_S K^- \pi^+$ 11 Aston 88D mass, pwa Aston 88I mass, pwa Aston 88J mass, pwa Augustin 88C mass, pwa Aston 86B mass, pwa	hyperon $\phi \gamma$ 32.5 Landsberg 87 mass, p hyperon $\phi \pi^0$ 32.5 Landsberg 87 mass, p hyperon $K^+ K^-$ 32.5 Landsberg 87 mass, p hyperon $K^+ K^- \gamma$ 32.5 Landsberg 87 mass, p hyperon $K^+ K^- \pi^0$ 32.5 Landsberg 87 mass, p hyperon $K^+ K^- 2\gamma$ 32.5 Landsberg 87 mass, p	$K^- \text{ Be}$ ϕX 100 Dijkstra 86D cs, p 100 - 175 Dijkstra 86 mult, p, pt $p X$ 40 Antipov 87 p DD < $K^- \pi^+ \pi^-$ > Be 40 Antipov 89C a-dep, angp, cs, mass $\phi \pi^+ X$ 100 Dijkstra 86C mass $\phi \pi^- X$ 100 Dijkstra 86C mass $K^+ \phi X$ 100 Dijkstra 86C mass $K^- \phi X$ 100 Dijkstra 86C mass $K^+ K^- X$ 100 - 175 Dijkstra 86 ang, dme, mass $K_S \phi X$ 100 Dijkstra 86C mass $p \phi X$ 100 Dijkstra 86C mass $\bar{p} \phi X$ 100 Dijkstra 86C mass $K^+ K^- \pi^+ X$ 100 Dijkstra 86C mass $K^+ K^- \pi^- X$ 100 Dijkstra 86C mass $K^+ 2K^- X$ 100 Dijkstra 86C mass $2K^+ K^- X$ 100 Dijkstra 86C mass $K^+ K_S K^- X$ 100 Dijkstra 86C mass $p K^+ K^- X$ 100 Dijkstra 86C mass $\bar{p} K^+ K^- X$ 100 Dijkstra 86C mass Be $K^- \pi^+ \pi^-$ 38 Efendiev 89 mass, pwa
$\Lambda K^+ K_S \pi^- + \Lambda K_S K^- \pi^+$ 11 Aston 88H amp, mass	hyperon $K^+ K^- \pi^0$ 32.5 Bituykov 86B mass, p	
$\Lambda K K (\pi^0)$ 3.93 - 176 Panagiotou 89 p, pol, pt	K^- deuteron $\pi^0 X$ 40 Amaglobeli 89 asym, pt Apokin 89 asym, pt Apokin 88C angp, asym, p	
$\Lambda K^- \pi^+ \pi^- X$ 11 Aston 89 mass, mass	$\pi^- X$ 0.92 - 1.4 Pigot 85 mass dibaryon ($S = -1$) π^- 0.92 - 1.4 Pigot 85 angp	
$p K^- \pi^+ \pi^0 \pi^-$ 11 Aston 89B mass, pwa Aston 88G cs, mass Aston 88I cs, mass Aston 86B cs, mass	$K^- \text{ } ^4\text{He}$ $^4\text{He} \Lambda \pi^-$ < 0.3 Dalitz 90 $^3\text{He} \Sigma^0 \pi^-$ < 0.3 Dalitz 90 deuteron $n \Sigma^+ \pi^-$ < 0.3 Dalitz 90 deuteron $n \Sigma^- \pi^+$ < 0.3 Dalitz 90 $p 2n \Sigma^+ \pi^-$ < 0.3 Dalitz 90 $p 2n \Sigma^- \pi^+$ < 0.3 Dalitz 90	
$p K^0 \pi^+ 2\pi^-$ Ma 86 p	$K^- \text{ Li}$ charged ⁺ X 40 Boos 88 a-dep, mult charged ⁻ X 40 Boos 88 a-dep, mult mult[charged ⁺] X 40 Boos 88 a-dep, mult mult[charged ⁻] X 40 Boos 88 a-dep, mult grey X 40 Boos 88 a-dep, mult mult[grey] X 40 Boos 88 a-dep, mult X star 40 Boos 88 a-dep, cs charged ⁺ X star 40 Boos 88 a-dep, mult charged ⁻ X star 40 Boos 88 a-dep, mult mult[charged ⁺] X star 40 Boos 88 a-dep, mult mult[charged ⁻] X star 40 Boos 88 a-dep, mult grey X star 40 Boos 88 a-dep, mult mult[grey] X star 40 Boos 88 a-dep, mult	
$\Lambda K^+ K^- 2\gamma$ 32.5 Landsberg 88 ang, angp, mass		
$p \bar{p} Y^*(\text{unspec}) \pi^+ \pi^-$ 40 Bolonkin 89 mass		
4charged (charged) (neutrals) 32.1 Babintsev 86B col		
$p K^- 2\pi^+ 2\pi^-$ 32.1 Ma 86 p Patalakha 85 ang, angp, mult, p, pt		
$p K^+ 2K^- \pi^+ \pi^-$ 32.1 Ma 86 p		
$2p \bar{p} K^- \pi^+ \pi^-$ 32.1 Ma 86 p		
$p K^0 2\pi^+ 3\pi^-$ 32.1 Ma 86 p		
$p K^- 3\pi^+ 3\pi^-$ 32.1 Ma 86 p Patalakha 85 ang, angp, mult, p, pt		
$p K^- 4\pi^+ 4\pi^-$ 32.1 Patalakha 85 ang, angp, mult, p, pt		
$K^- n$		
hyperon $f_1(1420)$ 32.5 Bituykov 87 cs		
hyperon $\eta(1440)$ 32.5 Bituykov 87 cs		
hyperon $f_1(1510)$ 32.5 Bituykov 87 cs		
hyperon $K^+ K^- \gamma$ 32.5 Bituykov 87 mass		
K^- nucleon		
hyperon $f_1(1285)$ 32.5 Landsberg 87 angp, cs, pwa		
hyperon $C(1480)$ 32.5 Landsberg 87 angp, cs, pwa		
		$K^- \text{ } ^{12}\text{C}$ hypernucleus π^+ 0 Gal 86B p 0.9195 Yamazaki 85 - 450 Yamazaki 86 - Dabrowski 86 - hypernucleus π^- 0 Gal 86B - 0.8 Grace 85 angp, mass Cs π^+ 0.45 Bertini 84 mass
		$K^- C$ X 1.6 - 1.8 Afanashev 88 a-dep, angp, cs inelastic 1.6 - 1.8 Afanashev 88 a-dep, angp, cs charged ⁺ X 40 Boos 88 a-dep, mult

$K^- C \rightarrow \text{charged}^- X$ $K^- \text{ nucleus} \rightarrow \text{charged}^- X$

$K^- C$	$K^- S$	$K^- Cu$
charged ⁻ X 40 Boos 88 a-dep, mult	mult[charged ⁻] X 40 Boos 88 a-dep, mult	Cu $K^- \pi^+ \pi^-$ 38 Efendiev 89 mass, pwa
mult[charged ⁺] X 40 Boos 88 a-dep, mult	grey X 40 Boos 88 a-dep, mult	$K^- Ag$
mult[charged ⁻] X 40 Boos 88 a-dep, mult	mult[grey] X 40 Boos 88 a-dep, mult	DD < $K^- \pi^+ \pi^-$ > Ag 40 Antipov 89C a-dep, angp, cs, mass
grey X 40 Boos 88 a-dep, mult	X star 40 Boos 88 a-dep, cs	Ag $K^- \pi^+ \pi^-$ 38 Efendiev 89 mass, pwa
mult[grey] X 40 Boos 88 a-dep, mult	charged ⁺ X star 40 Boos 88 a-dep, mult	$K^- Cd$
X star 40 Boos 88 a-dep, cs	charged ⁻ X star 40 Boos 88 a-dep, mult	X 1.6 - 1.8 Afanasyev 88 a-dep, angp, cs
charged ⁺ X star 40 Boos 88 a-dep, mult	mult[charged ⁺] X star 40 Boos 88 a-dep, mult	inelastic 1.6 - 1.8 Afanasyev 88 a-dep, angp, cs
charged ⁻ X star 40 Boos 88 a-dep, mult	mult[charged ⁻] X star 40 Boos 88 a-dep, mult	$K^- Wt$
mult[charged ⁺] X star 40 Boos 88 a-dep, mult	grey X star 40 Boos 88 a-dep, mult	γ X 0 Gall 88 p
mult[charged ⁻] X star 40 Boos 88 a-dep, mult	mult[grey] X star 40 Boos 88 a-dep, mult	Ξ^0 X 6 Bensingier 88 -
grey X star 40 Boos 88 a-dep, mult	$K^- Ti$	$\Lambda \pi^0$ X 6 Bensingier 88 cs, mass
mult[grey] X star 40 Boos 88 a-dep, mult	X 1.6 - 1.8 Afanasyev 88 a-dep, angp, cs	$\Lambda 2\gamma$ X 6 Bensingier 88 cs, mass
$K^- {}^{16}O$	inelastic 1.6 - 1.8 Afanasyev 88 a-dep, angp, cs	$K^- Pb$
$O_5 \pi^+$ 0.45 E rtini 84 mass	$K^- Cu$	charged ⁺ X 40 Boos 88 a-dep, mult
$K^- Al$	charged ⁺ X 40 Boos 88 a-dep, mult	charged ⁻ X 40 Boos 88 a-dep, mult
X 1.6 - 1.8 Afanasyev 88 a-dep, angp, cs	charged ⁻ X 40 Boos 88 a-dep, mult	mult[charged ⁺] X 40 Boos 88 a-dep, mult
inelastic 1.6 - 1.8 Afanasyev 88 a-dep, angp, cs	mult[charged ⁺] X 40 Boos 88 a-dep, mult	mult[charged ⁻] X 40 Boos 88 a-dep, mult
Al $K^- \pi^+ \pi^-$ 38 Efendiev 89 mass, pwa	mult[charged ⁻] X 40 Boos 88 a-dep, mult	γ X 0 Gall 88 p
$K^- Si$	Λ_c^+ X 230 Barlag 90D p	grey X 40 Boos 88 a-dep, mult
D^0 X 200 Barlag 88 cs, p, pt	$\bar{\Lambda}_c^-$ X 230 Barlag 90D p	mult[grey] X 40 Boos 88 a-dep, mult
\bar{D}^0 X 200 Barlag 88 cs, p, pt	grey X 40 Boos 88 a-dep, mult	X star 40 Boos 88 a-dep, cs
D^+ X 200 Barlag 88 cs, p, pt	mult[grey] X 40 Boos 88 a-dep, mult	DD < $K^- \pi^+ \pi^-$ > Pb 40 Antipov 89C a-dep, angp, cs, mass
D^- X 200 Barlag 88 cs, p, pt	X star 40 Boos 88 a-dep, cs	charged ⁺ X star 40 Boos 88 a-dep, mult
D_S^- X 200 Barlag 88 cs, p, pt	DD < $K^- \pi^+ \pi^-$ > Cu 40 Antipov 89C a-dep, angp, cs, mass	charged ⁻ X star 40 Boos 88 a-dep, mult
D_S^+ X 200 Barlag 88 cs, p, pt	charged ⁺ X star 40 Boos 88 a-dep, mult	mult[charged ⁺] X star 40 Boos 88 a-dep, mult
$D^*(2010)^+$ X 200 Barlag 88 cs, p, pt	charged ⁻ X star 40 Boos 88 a-dep, mult	mult[charged ⁻] X star 40 Boos 88 a-dep, mult
$D^*(2010)^-$ X 200 Barlag 88 cs, p, pt	mult[charged ⁺] X star 40 Boos 88 a-dep, mult	grey X star 40 Boos 88 a-dep, mult
$K^+ K^- 2\pi^+ 2\pi^-$ X 200 Barlag 88 mass	mult[charged ⁻] X star 40 Boos 88 a-dep, mult	mult[grey] X star 40 Boos 88 a-dep, mult
$K^- S$	grey X star 40 Boos 88 a-dep, mult	Pb $K^- \pi^+ \pi^-$ 38 Efendiev 89 mass, pwa
charged ⁺ X 40 Boos 88 a-dep, mult	mult[grey] X star 40 Boos 88 a-dep, mult	$K^- \text{nucleus}$
charged ⁻ X 40 Boos 88 a-dep, mult	$p K^- \pi^+$ X 230 Barlag 90D angp, mass, p	inelastic 5 - 300 Fredriksson 87 a-dep, cs 13.3 Prokoshkin 87C cs
mult[charged ⁺] X 40 Boos 88 a-dep, mult	$\bar{p} K^+ \pi^-$ X 230 Barlag 90D angp, mass, p	charged ⁺ X 40 Boos 88 a-dep, mult
		charged ⁻ X 40 Boos 88 a-dep, mult

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

K^- nucleus \rightarrow charged $^-$ X $K^+ p \rightarrow DD < 2K^+ K^- \rho^0 > p$

K^- nucleus	$K^+ p$	$K^+ p$
charged $^-$ X	$\rho^+ X$	$\bar{\Lambda} X$
Fredriksson 87 mult	250	250
mult[charged $^+$] X	$\rho^- X$	$\Sigma(1385 P_{13})^+ X$
40	250	250
Boos 88 a-dep, mult	$\rho^0 X$	anomalon X
mult[charged $^-$] X	250	147
40	250	200
Boos 88 a-dep, mult	ωX	shower X
p X	250	200
40	250	Brick 90 cor, mult, p
Fredriksson 87 a-dep, mult	ϕX	Brick 89 mult
$\Xi^- X$	250	$p K^+$
1.5	250	< 3
May 89B -	ωX	Arndt 84 angp, cs, pwa
4	250	Baller 88 angp, cs, pt
grey X	120	Asad 85 angp, cs
37.5	250	Grassler 88 angp, cs
40	250	Adamus 87D angp, cs
Fredriksson 87 mult	$f_2(1270) X$	$\Delta(1232 P_{33})^{++} K^0$
40	250	32.1
Boos 88 a-dep, mult	$D^0 X + \bar{D}^0 X$	Gerdyukov 86B angp, cs
shower X	32.1	$p K^*(892)^+$
20 - 40	32.1	32.1
Fredriksson 87 mult	$D^+ X$	Gerdyukov 86B angp, cs
X star	32.1	$p K_2^*(1430)^+$
40	32.1	32.1
Boos 88 a-dep, cs	$D^- X$	Gerdyukov 86B angp, cs
nucleus meson	32.1	$DD < \Lambda K^+ > \pi^+$
38	32.1	32.1
Efendiev 89 cs	$D_S^+ X$	Gerdyukov 87 ang, mass
p charged $^-$ X	32.1	$DD < 2p \bar{p} \pi^+ \pi^- > K^+$
25 - 60	32.1	32.1
Fredriksson 87 cor, mult	$K^+ X$	Ajinenko 87B cs, mass
charged $^+$ X star	70	$DD < \text{charged (charged) (neutrals)} > K^+$
40	70	250
Boos 88 a-dep, mult	$K^*(892)^+ X$	Adamus 88F cs, p
charged $^-$ X star	32.1	$DD < \Delta(1232 P_{33})^{++} K^+ K^- \pi^- > K^+$
40	250	32.1
Boos 88 a-dep, mult	?	Ajinenko 87B cs
mult[charged $^+$] X star	$K^*(892)^- X$	$DD < \Delta(1232 P_{33})^{++} \pi^+ \pi^- > K^+$
40	32.1	32.1
Boos 88 a-dep, mult	$K^*(892)^0 X$	Ajinenko 87B cs
mult[charged $^-$] X star	250	$DD < \Delta(1232 P_{33})^{++} \pi^- > K^+$
40	?	32.1
Boos 88 a-dep, mult	$K^*(892)^0 X$	Gerdyukov 87 ang, mass
grey X star	250	$DD < p 2\pi^+ 2\pi^- > K^+$
40	250	32.1
Boos 88 a-dep, mult	$\bar{K}^*(892)^0 X$	Ajinenko 87B
mult[grey] X star	250	250
40	$K_2^*(1430)^+ X$	Ajinenko 89B
Boos 88 a-dep, mult	32.1	cs, mass, p
mult[charged $^+$] X star	$K_2^*(1430)^0 X$	$DD < p K^*(892)^0 K^- \pi^+ > K^+$
40	250	32.1
Boos 88 a-dep, mult	$K_S X$	Ajinenko 87B cs
charged $^+$ X	70	$DD < p \bar{K}^*(892)^0 K^+ \pi^- > K^+$
70	70	32.1
Kubic 85 mult	$D_S^\pm X$	Ajinenko 87B cs
250	200	$DD < p K^+ K^- \pi^+ \pi^- > K^+$
Aivazyan 89 mult, p	p X	32.1
Aivazyan 88 mult, p, pt	200	angp, cs, mass
Adamus 87C mult, p	200	$DD < p K^+ K^- \rho^0 > K^+$
Adamus 86B cs, mult	250	32.1
charged $^+$ X	$\Delta(1232 P_{33})^{++} X$	Ajinenko 87B cs
70	250	$DD < p \phi \pi^+ \pi^- > K^+$
Kubic 85 mult	$\Lambda_c^+ X$	32.1
250	32.1	Ajinenko 87B cs
Aivazyan 89 mult, p	$\Xi_c(2460)^- X$	$DD < p \pi^+ \pi^- > K^+$
Adamus 88G mult, p, pt	32.1	250
mult[charged $^-$] X	ΛX	Ajinenko 89B
70	8.2 - 70	cs, mass, p
200	250	$DD < p \rho^0 \pi^+ \pi^- > K^+$
250	250	32.1
Kubic 85 mult	$\bar{\Xi}_c(2460)^- X$	Ajinenko 87B cs
Brick 90 cor, mult, p	32.1	$DD < X > K^+$
Aivazyan 89 mult, p	ΛX	32.1
Adamus 88G mult, p, pt	8.2 - 70	Garutchava 87B
Ajinenko 87 mult, p, pt	250	angp, mass
mult[charged] X	$\bar{\Lambda} X$	$DD < 2K^+ K^- \pi^+ \pi^- > p$
250	8.2 - 70	32.1
Adamus 88G mult	250	Ajinenko 87B angp, cs, mass
mult[charged] (neutrals)	250	$DD < 2K^+ K^- \rho^0 > p$
70	250	32.1
Gritsaenko 84 cs, mult	250	Ajinenko 87B
Brick 86 p	250	cs
Ajinenko 90 angp, mult, p	250	cs
Ajinenko 89C mult, p	250	cs
Ajinenko 89D col, p	250	cs
Buschbeck 89 mult, p	250	cs
Ajinenko 87 p, pt	250	cs
$\pi^0 X$	250	cs
250	250	cs
Adamus 86C cs, mult, p, pt	250	cs

$K^+ p \rightarrow DD < \text{charged (charged)} > (\text{neutrals}) > p$

$K^+ p \rightarrow K_S \pi^+ \pi^- X$

$K^+ p$	$K^+ p$	$K^+ p$
DD < charged (charged) (neutrals) >	$\pi^+ \pi^- X$	$p K_S X$
p	250	Agababayan 89 mass, p
250 Adamus 88F cs, p	ρ^0 charged X	Ajinenko 84B angp, cs, mass
DD < $K^*(892)^+ 2\pi^+ 2\pi^- > p$	250	$\Lambda K_S X$
32.1 Gerdyukov 87	$K^+ \pi^0 X$	32.1 Tomaradze 86 ang
cs, mass, pt	250	70 Ronjin 86 p, pt
DD < $K^*(892)^+ \rho^0 > p$	$K^+ \pi^- X$	$\bar{\Lambda} K_S X$
32.1 Gerdyukov 87	250	32.1 Tomaradze 86 ang
ang, mass	Agababayan 89 mass, p	70 Ronjin 86 p, pt
DD < $K^*(892)^0 2\pi^+ \pi^- > p$	$K^- \pi^+ X$	$\Lambda K_S X + \Sigma^0 K_S X$
32.1 Ajinenko 87B	250	32.1 Ajinenko 84C
cs	Agababayan 89 mass, p	cs, mass, p, pt
DD < $K^*(892)^0 K^+ K^- \pi^+ > p$	$K^*(892)^0$ charged X	$\bar{\Lambda} K_S X + \bar{\Sigma}^0 K_S X$
32.1 Ajinenko 87B	250	32.1 Ajinenko 84C
cs	Agababayan 89	cs, mass, p, pt
DD < $\bar{K}^*(892)^0 2K^+ \pi^- > p$	$\bar{K}^*(892)^0$ charged X	$p \Lambda X$
32.1 Ajinenko 87B	250	32.1 Ajinenko 85 cs, p
cs	Agababayan 89	70 Ronjin 86 p, pt
DD < $K^+ 2\pi^+ 2\pi^- > p$	$K^*(892)^+ \pi^+ X$	$p \bar{\Lambda} X$
32.1 Ajinenko 87B	32.1	32.1 Tomaradze 86 ang
ang, angp, cs, mass	Knyazev 85	70 Ronjin 86 p, pt
250 Ajinenko 89B	$K^*(892)^+ \pi^- X$	$\Lambda \bar{\Lambda} X$
cs, mass, p	32.1	32.1 Tomaradze 86 ang
DD < $K^+ \phi \pi^+ \pi^- > p$	$K^0 \phi X$	70 Ronjin 86 p, pt
32.1 Ajinenko 87B	32.1	$\Lambda \bar{\Lambda} X + \Lambda \Sigma^0 X + \bar{\Lambda} \Sigma^0 X + \Sigma^0 \bar{\Sigma}^0 X$
cs	Tomaradze 86 ang	32.1 Ajinenko 84C
DD < $K^+ \pi^+ \pi^- > p$	$K^*(892)^+ \rho^0 X$	cs, mass, p, pt
250 Ajinenko 89B	32.1	$\bar{\Lambda}$ Ostrange X
cs, mass, p	$K^+ K^- X$	32.1 Garutchava 87
DD < $K^+ \rho^0 \pi^+ \pi^- > p$	250	ang, cs, p
32.1 Ajinenko 87B	Agababayan 89 mass, p	$\bar{\Lambda}$ strange X
cs	Adamus 87 mass, p	32.1 Garutchava 87
DD < $K^0 \rho^0 \pi^+ > p$	$2K^*(892)^+ X$	ang, cs, p
32.1 Gerdyukov 87	32.1	$\bar{\Lambda}$ strange X
cs, mass, pt	Knyazev 85	32.1 Garutchava 87
DD < $p \bar{p} K^+ \pi^+ \pi^- > p$	$K^*(892)^+ K^*(892)^0 X$	ang, cs, p
32.1 Ajinenko 87B	32.1	K^+ mult[charged] (neutrals)
cs, mass	Knyazev 85	250 Adamus 88F mult
DD < $X > \bar{\Lambda}$	$K_S \pi^+ X$	p mult[charged] (neutrals)
32.1 Garutchava 87B	32.1	250 Adamus 88F mult
angp, mass	$K_S \pi^- X$	$p K^0 \pi^+$
DD < $K^+ \pi^+ \pi^- > DD < 2p \bar{p} >$	32.1	32.1 Ajinenko 86C
32.1 Ajinenko 87B	Ajinenko 84B	Gerdyukov 86B
cs	angp, cs, mass	cs, mass, p, p
DD < $2K^+ K^- > DD < \Delta(1232 F_{33})^{++} \pi^- >$	$K_S \rho^0 X$	$\Delta(1232 F_{33})^{++} K^+ \pi^-$
32.1	32.1	250 Ajinenko 89B
Ajinenko 87B	Knyazev 85	$p K^*(892)^0 \pi^+$
cs	cs, p	250 Ajinenko 89B
DD < $K^+ \pi^+ \pi^- > DD < \Delta(1232 F_{33})^{++} \pi^- >$	$K^+ K_S X$	$p K^+ \rho^0$
32.1	32.1	250 Ajinenko 89B
Ajinenko 87B	Ajinenko 84B	$p K^+ \phi$
cs	angp, cs, mass	13 Frame 86
DD < $p \pi^+ \pi^- > DD < K^+ \pi^+ \pi^- >$	$K^*(892)^+ K_S X$	ang, angp, dme, mass, pwa
32.1	32.1	$p K_S^0(1430)^0 \pi^+$
Ajinenko 87B	Tomaradze 86	250 Ajinenko 89B
cs, mass	ang	$p K^+ f_2(1270)$
DD < $K^+ \pi^+ \pi^- > DD < p K^+ K^- >$	$K^*(892)^- K_S X$	250 Ajinenko 89B
32.1	70	cs
Ajinenko 87B	Ronjin 86	$\Lambda 2K^+$
cs	cs	32.1 Gerdyukov 87
DD < $2K^+ K^- > DD < p \pi^+ \pi^- >$	$2K_S X$	ang, mass
32.1	32.1	Ajinenko 86C
Ajinenko 87B	Tomaradze 86	Gerdyukov 86
cs, mass	ang	angp, cs, mass, p
DD < $K^*(892)^0 \pi^+ > DD < p \pi^+ \pi^- >$	$\Lambda \pi^+ X$	$2p \bar{\Lambda}$
32.1	32.1	32.1
Ajinenko 87B	Ajinenko 84B	Ajinenko 86C
cs	angp, cs, mass	Gerdyukov 86C
DD < $K^+ \phi > DD < p \pi^+ \pi^- >$	$p K^*(892)^+ X$	ang, mass, p
32.1	32.1	cs
Ajinenko 87B	Tomaradze 86	$\Sigma(1385 F_{13})^+ K^0 X$
cs	ang	32.1 Ajinenko 84C
DD < $p \bar{p} K^+ > DD < p \pi^+ \pi^- >$	$\Sigma(1385 F_{13})^- K^0 X$	cs, p
32.1	32.1	$\Lambda K^*(892)^+ X$
Ajinenko 87B	Ajinenko 84C	70 Ronjin 86
cs	cs, p	cs
DD < $2K^+ K^- > DD < p \rho^0 >$	$\Lambda K^*(892)^+ X + \Sigma^0 K^*(892)^+ X$	$\Lambda K^*(892)^+ X$
32.1	32.1	32.1
Ajinenko 87B	Ajinenko 84C	Gerdyukov 87
cs	cs, p	ang, mass
DD < $K^+ \pi^+ \pi^- > DD < p \rho^0 >$	$p K_S \pi^+ \pi^- X$	Ajinenko 86C
32.1	32.1	Gerdyukov 86
Ajinenko 87B	Tomaradze 86	angp, cs, mass, p
cs	ang	$2\pi \bar{\Lambda}$
$\pi^+ \pi^0 X$		32.1
250		Ajinenko 86C
Agababayan 89 mass, p		Gerdyukov 86C
$2\pi^+ X$		angp, cs, mass, p
250		$2\text{charged (charged)} (\text{neutrals})$
Adamus 88 angp, cor, p		80-140 Arsimon 99 col, pt
$2\pi^- X$		$\pi^+ \pi^0 \pi^- X$
250		250
Adamus 88 angp, cor, p		Agababayan 89 mass, p
		Adamus 87E mass
		$K_S \pi^+ \pi^- X$
		32.1 Ajinenko 84B
		angp, cs, mass

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$K^+ p \rightarrow K_S \pi^+ \pi^- X$

$K^+ p$			$K^+ p$			$K^+ p$			
$K_S \pi^+ \pi^- X$			$p 2K^0 \bar{K}^0 \pi^+$			$2p \bar{\Lambda} K^0 \bar{K}^0 \pi^+$			
32.1	Ajinenko 83B	mass	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$2K_S \pi^+ X$			$2p \bar{\Lambda} \pi^+ \pi^-$			$2p \Lambda 2\bar{\Lambda} \pi^+ \pi^-$			
32.1	Ajinenko 84	mass	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$2K_S \pi^- X$			$2p \bar{p} K^0 \pi^+$			$p K^+ 3\pi^+ 3\pi^-$			
32.1	Ajinenko 84	mass	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p K^+(892)^+ \pi^+ X$			$p \Lambda \bar{\Lambda} K^0 \pi^+$			$\Lambda K^+ K^0 3\pi^+ 2\pi^-$			
32.1	Ajinenko 86B	cs, p	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p K^+(892)^+ \pi^- X$			$p \bar{p} \Lambda 2K^+$			$p K^+ K^0 \bar{K}^0 2\pi^+ 2\pi^-$			
32.1	Ajinenko 86B	cs, p	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p K_S \pi^+ X$			$2p \bar{\Lambda} K^0 \bar{K}^0$			$p \Lambda \bar{\Lambda} K^+ 2\pi^+ 2\pi^-$			
32.1	Ajinenko 86B	cs, p	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p K_S \pi^- X$			$2p \Lambda 2\bar{\Lambda}$			$2p \bar{\Lambda} K^+ \bar{K}^0 \pi^+ 2\pi^-$			
32.1	Ajinenko 86B	cs, p	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$\Delta(1232 P_{33})^{++} K_S \pi^+ X$			$p K^+ 2\pi^+ 2\pi^-$			$p K^0 4\pi^+ 3\pi^-$			
32.1	Ajinenko 86B	cs, p	32.1	Ajinenko 87B	angp	32.1	Ajinenko 86C	cs	
$\Delta(1232 P_{33})^{++} K_S \pi^- X$				Ajinenko 86C	cs	$\Lambda 2K^0 4\pi^+ 2\pi^-$			
32.1	Ajinenko 86B	cs, p	250	Ajinenko 89B	cs	32.1	Ajinenko 86C	cs	
$\bar{\Lambda} K_S \pi^- X$			$\Delta(1232 P_{33})^{++} K^0 2\pi^+ 2\pi^-$			$p 2K^0 \bar{K}^0 3\pi^+ 2\pi^-$			
32.1	Ajinenko 84B	angp, cs, mass	32.1	Gerdyukov 87	cs, mass, pt	32.1	Ajinenko 86C	cs	
$p \Lambda \text{ mult[charged] (neutrals)}$			$p K^+(892)^+ 2\pi^+ 2\pi^-$			$2p \bar{\Lambda} 3\pi^+ 3\pi^-$			
32.1	Ajinenko 85	cs	32.1	Gerdyukov 87	cs, mass, pt	32.1	Ajinenko 86C	cs	
$p K^+ \pi^+ \pi^-$			$p K^0 \rho^0 2\pi^+ \pi^-$			$2p \bar{\Lambda} K^0 \bar{K}^0 2\pi^+ 2\pi^-$			
32.1	Gerdyukov 87	ang, mass	32.1	Gerdyukov 87	cs, mass, pt	32.1	Ajinenko 86C	cs	
	Ajinenko 86C	cs	$p K_S^+(1430)^+ 2\pi^+ 2\pi^-$			$p K^+ 4\pi^+ 4\pi^-$			
	Ajinenko 89B	cs	32.1	Gerdyukov 87	cs, mass, pt	32.1	Ajinenko 86C	cs	
$\Delta(1232 P_{33})^{++} K^0 \pi^+ \pi^-$			$\Lambda K^+ K^0 2\pi^+ \pi^-$			$\Lambda K^+ K^0 4\pi^+ 3\pi^-$			
32.1	Gerdyukov 87	cs, mass, pt	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p K^+(892)^+ \pi^+ \pi^-$			$2p 2K^+ K^- \pi^+ \pi^-$			$p K^+ K^0 \bar{K}^0 3\pi^+ 3\pi^-$			
32.1	Gerdyukov 87	cs, cs, mass, mass, pt, pt	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p K^0 \rho^0 \pi^+$			$p K^+ K^0 \bar{K}^0 \pi^+ \pi^-$			$p \Lambda \bar{\Lambda} K^+ 3\pi^+ 3\pi^-$			
32.1	Gerdyukov 87	cs, mass, pt	32.1	Ajinenko 87B	angp	32.1	Ajinenko 86C	cs	
$p K_S^+(1430)^+ \pi^+ \pi^-$			$2p \bar{p} K^+ \pi^+ \pi^-$			$p K^0 5\pi^+ 4\pi^-$			
32.1	Gerdyukov 87	cs, cs, mass, mass, pt, pt	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$\Lambda K^+ K^0 \pi^+$			$p \Lambda \bar{\Lambda} K^+ \pi^+ \pi^-$			$\Lambda 2K^0 5\pi^+ 3\pi^-$			
32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
$p 2K^+ K^-$			$2p \bar{\Lambda} K^+ \bar{K}^0 \pi^-$			$p 2K^0 \bar{K}^0 4\pi^+ 3\pi^-$			
13	Frame 86	mass	32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
32.1	Ajinenko 86C	cs	$p K^0 3\pi^+ 2\pi^-$			$2p \bar{\Lambda} 4\pi^+ 4\pi^-$			
$p K^+ K^0 \bar{K}^0$			32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs	
32.1	Ajinenko 86C	cs		Gerdyukov 87	angp, cs, mass, pt	$p K^+ K^0 \bar{K}^0 4\pi^+ 4\pi^-$			
$2p \bar{p} K^+$			$\Lambda 2K^+ 2\pi^+ 2\pi^-$			32.1	Ajinenko 86C	cs	
13	Frame 86	mass	32.1	Ajinenko 86C	cs	$p \Lambda \bar{\Lambda} K^+ 4\pi^+ 4\pi^-$			
32.1	Ajinenko 86C	cs	$\Lambda 2K^0 3\pi^+ \pi^-$			32.1	Ajinenko 86C	cs	
$p \Lambda \bar{\Lambda} K^+$			32.1	Ajinenko 86C	cs	$\Lambda 2K^0 6\pi^+ 4\pi^-$			
32.1	Ajinenko 86C	cs	$p 2K^+ \bar{K}^0 \pi^+ 2\pi^-$			32.1	Ajinenko 86C	cs	
$2K_S \pi^+ \pi^- X$			32.1	Ajinenko 86C	cs	$p 2K^0 \bar{K}^0 5\pi^+ 4\pi^-$			
32.1	Ajinenko 84	mass	$p K^+ K^0 K^- 2\pi^+ \pi^-$			32.1	Ajinenko 86C	cs	
$\Lambda 2\pi^+ \pi^- X$			32.1	Ajinenko 86C	cs	$2p \bar{\Lambda} K^0 \bar{K}^0 4\pi^+ 4\pi^-$			
32.1	Ajinenko 84B	angp, cs, mass	$p 2K^0 \bar{K}^0 2\pi^+ \pi^-$			32.1	Ajinenko 86C	cs	
$p K^0 2\pi^+ \pi^-$			32.1	Ajinenko 86C	cs				
32.1	Gerdyukov 87	angp, cs, mass, pt	$2p \bar{\Lambda} 2\pi^+ 2\pi^-$						
	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs				
$\Lambda 2K^+ \pi^+ \pi^-$			$2p \bar{p} K^0 2\pi^+ \pi^-$						
32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs				
$\Lambda 2K^0 2\pi^+$			$p \Lambda \bar{\Lambda} K^0 2\pi^+ \pi^-$						
32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs				
$p 2K^+ \bar{K}^0 \pi^-$			$p \bar{p} \Lambda 2K^+ \pi^+ \pi^-$						
32.1	Ajinenko 86C	cs	32.1	Ajinenko 86C	cs				
$p K^+ K^0 K^- \pi^+$									
32.1	Ajinenko 86C	cs							

 $K^+ n$ $p K^+ \pi^-$

5.98 - 11.85 Delesquen 89

angp, dme, pol

 K^+ deuteron ηX

10.5

Akimenko 85

 K^+ Be ϕX

120 - 200

Dijkstra 86

mult, p, pt

$K^+ Be \rightarrow K^0 X$ $K^+ Au \rightarrow \text{mult[gray]} \text{ charged}^+ \text{ charged}^- X$

$K^+ Be$			$K^+ Al$			$K^+ Ag$		
$K^0 X$ 11.2	Akimenko 90B		X 1.6 - 1.8	Afanasyev 88		mult[gray] shower X 200	Brick 89	mult
$K^*(892)^0 X$ 11.2	Akimenko 90C		inelastic 1.6 - 1.8	Afanasyev 88		mult[gray] charged⁺ charged⁻ X 200	Brick 89	mult
$\phi \pi^+ X$ 120	Dijkstra 86C	mass	charged X 250	Ajinenko 89	mult	$K^+ Cd$ 1.6 - 1.8	Afanasyev 88	a-dep, angp, cs
$\phi \pi^- X$ 120	Dijkstra 86C	mass	charged⁺ X 250	Ajinenko 89	mult	inelastic 1.6 - 1.8	Afanasyev 88	a-dep, angp, cs
$K^+ \phi X$ 120	Dijkstra 86C	mass	charged⁻ X 250	Ajinenko 89	mult	$K^+ Xe$ $K^+ X$ 0.56 - 0.81	Barmin 89B	-
$K^- \phi X$ 120	Dijkstra 86C	mass	mult[charged⁺] X 250	Ajinenko 90B	angp, mult, p	$K^0 X$ 0.85	Barmin 86B	-
$K^+ K^- X$ 120 - 200	Dijkstra 86	ang, dme, mass	mult[charged⁻] X 250	Ajinenko 89	mult	$K_S X$ 0.85	Barmin 85	-
$K_S \phi X$ 120	Dijkstra 86C	mass	mult[gray] X 250	Ajinenko 90B	angp, mult, p	$2\gamma X$ 0.85	Barmin 86C	mass
$p \phi X$ 120	Dijkstra 86C	mass	mult[gray] charged⁻ X 250	Ajinenko 89	p	$\pi^+ \pi^0 \pi^- X$ 0.85	Barmin 85	-
$\bar{p} \phi X$ 120	Dijkstra 86C	mass	$p X$ 250	Ajinenko 89	mult	$K^+ Au$ charged X 200	Brick 89	mult
$K^+ K^- \pi^+ X$ 120	Dijkstra 86C	mass	mult[gray] X 250	Ajinenko 89	cor, mult	charged⁺ X 250	Ajinenko 89	mult
$K^+ K^- \pi^- X$ 120	Dijkstra 86C	mass	mult[gray] mult[charged X] 250	Ajinenko 90B	angp, mult, p	charged⁻ X 200	Brick 90	cor, mult, p
$K^+ 2K^- X$ 120	Dijkstra 86C	mass	mult[gray] mult[charged⁻] X 250	Ajinenko 90B	angp, mult, p	mult[charged] X 200	Brick 89	mult
$2K^+ K^- X$ 120	Dijkstra 86C	mass	$K^+ Ti$ X 1.6 - 1.8	Afanasyev 88	a-dep, angp, cs	mult[charged⁺] X 250	Ajinenko 90B	angp, mult, p
$K^+ K_S K^- X$ 120	Dijkstra 86C	mass	inelastic 1.6 - 1.8	Afanasyev 88	a-dep, angp, cs	mult[charged⁻] X 200	Brick 89	mult
$p K^+ K^- X$ 120	Dijkstra 86C	mass	$K^+ Cu$ $K^0 X$ 11.2	Akimenko 90B	a-dep, angp, p, pt	$p X$ 250	Ajinenko 89	mult
$\bar{p} K^+ K^- X$ 120	Dijkstra 86C	mass	$K^*(892)^0 X$ 11.2	Akimenko 90C	a-dep, angp, p, pt	mult[gray] X 250	Ajinenko 89	mult
$K^+ C$ X 1.6 - 1.8	Afanasyev 88	a-dep, angp, cs	$K^+ Ag$ charged X 200	Brick 89	mult	mult[shower] X 200	Brick 89	mult
inelastic 1.6 - 1.8	Afanasyev 88	a-dep, angp, cs	charged⁻ X 200	Brick 90	cor, mult, p	shower X 200	Brick 90	cor, mult, p
$\pi^0 X$ 200	Badier 85E	cs, p, pt	mult[charged] X 200	Brick 89	mult	mult[gray] charged⁻ X 200	Brick 90	cor, mult, p
$K^+ Mg$ charged X 200	Brick 89	mult	mult[charged⁻] X 200	Brick 89	mult	mult[gray] mult[charged⁻] X 250	Ajinenko 90B	angp, mult, p
charged⁻ X 200	Brick 90	cor, mult, p	mult[shower] X 200	Brick 89	mult	mult[gray] mult[charged⁻] X 250	Ajinenko 90B	angp, mult, p
mult[charged⁺] X 200	Brick 89	mult	shower X 200	Brick 90	cor, mult, p	mult[gray] shower X 200	Brick 90	cor, mult, p
mult[charged⁻] X 200	Brick 89	mult	mult[gray] charged⁻ X 200	Brick 90	cor, mult, p	mult[gray] charged⁺ charged⁻ X 200	Brick 89	mult
mult[shower] X 200	Brick 89	mult	mult[gray] shower X 200	Brick 90	cor, mult, p			
shower X 200	Brick 90	cor, mult, p		Brick 89	mult			
mult[gray] charged⁻ X 200	Brick 90	cor, mult, p						
mult[gray] shower X 200	Brick 89	mult						
mult[gray] charged⁺ charged⁻ X 200	Brick 89	mult						

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$K^+ Pb \rightarrow K^0 X$ $\bar{p} p \rightarrow \text{charged}^- X$

$K^+ Pb$		$K_L Al$		$\bar{p} p$	
$K^0 X$ 11.2	Akimenko 90B a-dep, angp, p, pt	X 1.6 - 7.4	Berezin 86	a-dep, cs	baryonium ?
$K^*(892)^0 X$ 11.2	Akimenko 90C a-dep, angp, p, pt	$K_L Cu$			Angelopoulos 85 Tanimori 85
hadron X 200	Akesson 88B angp, et	X 1.6 - 7.4	Berezin 86	a-dep, cs	$\chi(\text{unspec})$ 5.586 - 5.624
K^+ nucleus		$Cu K^*(892)^0$ 100 - 200	Carlsmith 85	-	mult$[\pi^+]$ 5.6
inelastic 5 - 300	Fredriksson 87 a-dep, cs	$Cu K_2^*(1430)^0$ 60 - 200	Carlsmith 87	cs	mult$[\pi^-]$ 2.3 - 9.2
charged$^- X$ 200	Fredriksson 87 mult	$Cu K_S$ 1.6 - 7.4	Balats 87	p, pt	annihil 0.1 - 100 0.3 - 0.58 0.4 - 0.6
$\pi^+ X$ 100	Fredriksson 87 angp	$Cu K_S \pi^0$ 60 - 200	Carlsmith 87	cs, mass	Sedlak 88 Sedlak 88
$\pi^- X$ 100	Fredriksson 87 angp	$K_L Sn$			0.1 - 100 0.586 - 0.604 1.91 - 1.99
$K^+ X$ 100	Fredriksson 87 angp	X 1.6 - 7.4	Berezin 86	a-dep, cs	inelastic 6.1 - 100 12 32.1 (200 - 900)
$K^- X$ 100	Fredriksson 87 angp	$K_L Pb$			Sedlak 88 Batyunya 86B Chakrabarti 85 Bogolyubsky 87E Salvini 88 Aler 86 Schmickler 86 Geichgimbel 85
$K^0 X$ 10	Fredriksson 87 angp	X 1.6 - 7.4	Berezin 86	a-dep, cs	(300 - 1800) Paoletti 89 Aler 85C Ward 86B Ward 86B Amos 90
$K_S X$ 10.5	Bitsadze 85 -	$Pb K^*(892)^0$ 100 - 200	Carlsmith 86	-	cs, mult, p cs
shower X 50 - 200	Fredriksson 87 mult	$Pb K_2^*(1430)^0$ 60 - 200	Carlsmith 87	cs	(546 - 640) (900) (1800)
$e^- e^+ X$ 10.5	Bitsadze 85 mass	$Pb K_S \pi^0$ 60 - 200	Carlsmith 87	cs, mass	mult[jet] (540)
p K^+ mult[fragt] 0.6	Berdnikov 86 ang, angp, cs, p	ρ^0 nucleon			Savoynavarro 85
nucleus p K^+ 0.3811 0.6	Smirnov 85 Berdnikov 85 ang, cs, p angp, cs, p	X < 3.9 < 5	Nakai 89 Abdinov 86	cs cs	(neutrals) X (630) (1800)
$K_L \gamma$		$\bar{p} p$			charged X 0.76 - 12 32.1
$K_2^*(1430)^0$ 60 - 200	Carlsmith 87 cs	X 0.1 - 100 0.2219 - 0.4132	Sedlak 88	cs	Banerjee 85B Bravina 89 Bogolyubsky 88C Bogolyubsky 87D
K_L deuteron		0.464	Bugg 87	cs	cor, mult, p
deuteron K_S 10 - 50	Silvestrov 87 Silvestrov 86 -	0.7 - 0.76	Block 84 Bogolyubsky 87E	angp, cs cs	Bogolyubsky 86H Alday 88
deuteron $\mu^- \mu^+ X$ 10 - 50	Silvestrov 87 mass	(5 - 62) 32.1 (23 - 62.5) (30.6 - 62.7)	Camillieri 87 Sedlak 88 Carboni 85 Salvini 88	cs cs cs cs	Adamus 86B Tannenbaum 89 Breakstone 86F
$K_L C$		(200 - 900)	Aler 86 Schmickler 86 Geichgimbel 85	cs cs cs	Tannenbaum 89 Ansoorge 89 Jenni 89
X 1.6 - 7.4	Berezin 86 a-dep, cs	(546 - 640) (546 - 900) (630) (900) (1800)	Ward 86B Jenni 89 Mandelli 88 Ward 86B Amos 90	cs, mult, p angp, et cs cs cs	Alner 86B Schmickler 86 Geichgimbel 85 Albajar 90B Banner 85B Tao 88
$\Omega^- X$ 80 - 280	Hartouni 85 cs, p, pt	$f_0(975)$ 0.702 - 0.757	Sedlak 88	cs	Alner 85C Albajar 89B Ward 86B Binkley 90
$\bar{\Omega}^+ X$ 80 - 280	Hartouni 85 cs, p, pt	$X(1935)^0$ 0.4 - 0.6	Bruckner 87	cs	cs, mult, p cs, p
$K^*(892)^+ \pi^-$ 75 - 200	Lamm 87 cs, p	$f_4(2220)$ 1.3 - 1.5	Bardin 87	cs	Abe 89M Abe 88C Ward 86B Abe 89H
$K^*(892)^- \pi^+$ 75 - 200	Lamm 87 cs, p	$\eta_c(1S)$ 3.621 - 5.755	Augustin 88C Toki 87	- -	cs, mult, p pt pt
$K_S \rho^0$ 75 - 200	Lamm 87 cs, p	?	Baglin 87	-	Albrow 88
$K_S \omega$ 75 - 200	Lamm 87 cs, p	$J/\psi(1S)$?	Baglin 87C	-	angp, mult, pt Alexopoulos 86B
$K_S \phi$ 75 - 200	Lamm 87 cs, p	$X_{c1}(1P)$ 5.51 - 29.02 ?	Baglin 86 Baglin 87 Baglin 87B	- - -	Turkot 88 cor, mult, p, pt Abe 89D angp, cs, p, pt
$\Lambda K^- X$ 80 - 280	Hartouni 85 mass	$X_{c2}(1P)$ 3.621 - 5.755 5.51 - 29.02 ?	Augustin 88C Baglin 86 Baglin 87 Baglin 87B	- - - -	charged$^+ X$ 200 (23 - 62.5)
$\bar{\Lambda} K^+ X$ 80 - 280	Hartouni 85 mass				Allday 88 Camillieri 87
$K_S \pi^+ \pi^-$ 75 - 200	Lamm 87 cs, p				cs, mult, p, pt
					charged$^- X$ 32.1
					Bogolyubsky 88C

$\bar{p} p \rightarrow \text{charged}^- X$

$\bar{p} p \rightarrow \text{mult}[\gamma] X$

$\bar{p} p$		$\bar{p} p$		$\bar{p} p$		$\bar{p} p$	
charged⁻ X		e⁺ X		ρ^0 X			
200	Bogolyubsky 86H p, pt	(546 - 630)	Albajar 86 p	9.1 - 405	Sedlak 88 p		
(23 - 62.5)	Allday 88 pt	(630)	Fransson 90 pt	12 - 22.4	Sedlak 88 amp		
	Camilleri 87 cs, mult, p, pt		Botner 89 pt		Batunyua 87J angp, pol, pt		
mult[charged] X		e⁻ X					
0.76 - 12	Banerjee 85B mult, p	(546 - 630)	Albajar 86 p	32.1	Kozlovsky 86 cs, mult, p, pt		
5.7 - 22.4	Baldin 86 col	(630)	Fransson 90 pt	(630)	Albajar 88C pt		
(23 - 62.5)	Camilleri 87 cs, mult		Botner 89 pt				
(53 - 630)	Tannenbaum 89 ang, et, p	μ^+ X		ω X			
(200 - 900)	Ansorge 89C mult, mult	(546 - 630)	Albajar 86 p	12	Chakrabarti 85 cs		
	Eckart 88 col, cor, mult, p	(630)	Albajar 88D pt	(630)	Albajar 88C -		
(540)	Savoynavarro 85 -	(1800)	Albajar 88F et, pt	η X			
(546 - 640)	Ward 86B cs, mult, p	μ^- X		0	Chiba 89 cs		
(630)	Appel 85B col, et	(546 - 630)	Albajar 86 p	(630)	Albajar 88C cs		
(900)	Ward 86B cs, mult, p	(630)	Albajar 88D pt	$f_0(975)$ X			
(1800)	Turkot 88 cor, mult, pt		Albajar 88F et, pt	32.1	Kozlovsky 86 cs		
(charged) (neutrals)		π^0 X		ϕ X			
22.4	Batunyua 90 cs	5.55	Sedlak 88 angp	(630)	Albajar 88C -		
(1800)	Freeman 89 et	12	Chakrabarti 85 angp	$f_2(1270)$ X			
		32.1	Bogolyubsky 87E mult	0.7 - 100	Sedlak 88 cs		
mult[charged] (neutrals)		40	Apokin 88E angp, asym, p	9.1	Sedlak 88 cs		
0.3 - 10	Sedlak 88 cs	70	Ukhanov 86B p	32.1	Kozlovsky 86 cs, mult, p, pt		
0.7 - 0.76	Banerjee 85 cs	(23 - 62.5)	Camilleri 87 cs	τ^\pm X			
6.1	Batunyua 86B cs	313.7	Bernasconi 88 cs, pt	(540)	Savoynavarro 85 -		
12	Chakrabarti 85 cs		Antille 87 cs, pt	(540 - 630)	Vuillemin 85 -		
22.4	Boos 86 cs, mult		Bernasconi 87 cs, pt	$J/\psi(1S)$ X			
32.1	Bogolyubsky 88 p	1496	Valenti 85 angp	5.586 - 5.624	Baglin 86B cs		
	Bogolyubsky 87D cor, mult, p	(53 - 640)	Akesson 85G pt	(546 - 630)	Tao 88 pt		
	Bogolyubsky 87E mult	(540)	Lancon 86B p, pt		Albajar 88C pt		
	Allday 88 cs, mult	(630)	Banner 85B pt		Albajar 88D pt		
200	Albajar 89 cor, p		Pare 90 angp, p, pt		Albajar 88E cs, p, pt		
(200 - 900)	Tao 88 mult	π^\pm X	Ansari 88B p, pt		Liss 90 -		
	Holi 86 et, mult, p	8.8 - 9.1	Appel 86B p, pt	$\Upsilon(1S)$ X			
	Ahner 85D mult	(546)		(630 - 1800)	Liss 90 -		
	Cerradini 85 mult	(1800)	Sedlak 88 p	$\Upsilon(3S)$ X + $\Upsilon(2S)$ X + $\Upsilon(1S)$ X			
	Albajar 90B et, mult, p, pt		Alexopoulos 90 mult, p, pt	(540 - 630)	Albajar 86C angp, cs		
(540)	Ahner 85 mult	π^+ X		(546 - 630)	Summers 87 cs		
(546)	Ahner 85C mult	0	Ahmad 84 p	Z^0 X			
(630)	Albajar 90 mult, p, pt	0.76	Banerjee 85 p, pt	(536 - 630)	Albajar 89B cs, p, pt		
(1800)	Hubbard 89B -	5.55	Sedlak 88 angp	(540)	Rubbia 86 cs		
	Buschbeck 89 -	12 - 1078	Sedlak 88 p	(540 - 630)	Arnisson 86C cs		
	Alexopoulos 88B col, et, mass, mult, p, pt	32.1	Bogolyubsky 88 p		Vuillemin 85 -		
			Smirnova 88 mult, p, pt	(540 - 640)	Stubenrauch 86 p, pt		
γ X			Bogolyubsky 87E mult	(540 - 1800)	Jenni 89 cs, pt		
0		(23 - 62.5)	Bravina 86 p	(546 - 630)	Stubenrauch 89 cs, pt		
	Omori 89 p		Camilleri 87 pt		Plochowesch 88 cs		
	Adiels 86B mult, p	π^- X			Salvini 88 cs, p, pt		
	Gorrine 85 p	0	Ahmad 84 cs		Tao 88 cs, p, pt		
0.105	Tsukerman 85 p	0.7 - 100	Sedlak 88 cs		Albajar 87 cs		
0.308	Ziegler 88 p	5.55	Sedlak 88 angp		Ansari 87C cs, p		
0.76 - 12	Ahmad 85C p	5.7	Sedlak 88 angp, pt		Ansari 87F cs		
	Banerjee 85B mult, p	12 - 1078	Sedlak 88 p		Cenci 87 cs		
	Chakrabarti 85 cs, p, pt	32.1	Bogolyubsky 88 p		Albajar 86B cs, pt		
	Bogolyubsky 88 p		Bogolyubsky 88C p, pt		Appel 86 cs, pt		
	Bogolyubsky 88E cs, mult, p, pt		Bogolyubsky 88C p, pt		Arnisson 85D cs		
70	Ukhanov 86B cs, p, pt	(23 - 62.5)	Smirnova 88 mult, p, pt	(630)	Levi 85 cs		
(23 - 62.5)	Camilleri 87 cs		Bogolyubsky 87E mult		Akesson 90B cs		
313.7	Bernasconi 88 cs, pt		Bogolyubsky 86H p, pt		Alitti 90 cs		
	Bernasconi 87 cs, pt		Bravina 86 p		Alitti 90B pt		
	Akesson 85G pt	π^+ X + π^- X	Camilleri 87 pt		Alitti 90C pt		
	Lancon 86B p, pt	(200 - 900)			Meier 89 cs		
	Ansorge 89 angp, mult	π X			Gan 88 cs		
	Ferbel 86 angp, pt	(630)	Burow 87 cs, mult		Ansari 87B cs		
	Hanni 85 cs, pt	η X	Botner 89 pt		Repellin 87 cs, mass		
	Albajar 88B angp, pt	0			Richard 87 pt		
	Appel 86B p, pt		Chiba 89 cs	(1800)	Watts 90 pt		
	Savini 88 angp, p, pt		Adiels 88 p		Abe 89Q cs		
	Albajar 89C angp, p, pt	12	Chakrabarti 85 cs		Geer 89T -		
	Albrow 88 pt	(23 - 62.5)	Camilleri 87 cs		Kanon 89 cs, pt		
	Ansari 88B ang, p, pt	313.7	Bernasconi 88 cs, pt		Smith 89 -		
	Richard 87 p, pt		Antille 87 cs, pt				
	Harris 90 p, pt	1496	Bernasconi 87 cs, pt		Z^0 X + W^- X + W^+ X		
e[±] X		(540)	Akesson 85G pt		(630)	Alitti 90D cs	
(540)	Savoynavarro 85 -	(630)	Banner 85B pt		$\chi(\text{unspec})$ X		
(540 - 630)	Vuillemin 85 -		Albajar 88C -		(630)	Albajar 88E cs, p, pt	
(546 - 630)	Appel 86 angp, pt	ρ^0 X			mult[γ] X		
		0.7 - 100	Sedlak 88 cs		0	Chiba 89 mass	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\bar{p} p \rightarrow \text{mult}[\gamma] X$ $\bar{p} p \rightarrow W^\pm X$

$\bar{p} p$	$\bar{p} p$	$\bar{p} p$
mult$[\gamma] X$		ΛX
12	Chiba 88	(200 - 900)
	Chakrabarti 85	(1800)
70	cor, mult	$\bar{\Lambda} X$
(900)	Ukhanov 86B	1.95 - 4
mult$[\pi^\pm] X$	Ward 86B	22.4
(540 - 630)	cs, mult, p	32.1
(1800)		176
mult$[\pi^0] X$	Vuillemin 85	(23 - 62.5)
(540 - 630)	Alexopoulos 90	504.6
	mult, p, pt	(31 - 62)
mult$[\pi] X$	Vuillemin 85	(1800)
1.5 - 2.1		$\Lambda X + \bar{\Lambda} X$
T(unspec) X	Sedlak 88	(200 - 900)
(546 - 630)		(1800)
W$^\pm X$	Tao 88	$\Sigma^+ X$
(546 - 630)	cs	32.1
W$^{+\prime} X$	Ansari 87D	$\Sigma^0 X$
(546 - 630)	Geer 89	32.1
	cs	$\Sigma^- X$
W$^{+\prime} X$	Stubenrauch 89	32.1
(546 - 630)	cs	$\Sigma(1385 P_{13})^+ X$
W$^{-\prime} X$	Stubenrauch 89	32.1
(546 - 630)	cs	$\Sigma(1385 P_{13})^- X$
X axiguon	Sphicas 88	32.1
(546 - 630)	cs	$\Sigma^0 X + \bar{\Sigma}^0 X$
Z$' X$	Stubenrauch 89	(200 - 900)
(546 - 630)	Ansari 87D	(1800)
	Geer 89	$\Xi^- X + \Xi^+ X$
W<math>^{+\prime} X + Z<math>' X + W$^{-\prime} X$</math></math>	Alitti 90D	32.1
(630)	cs	$\Xi^- X$
K$^+ X$	Bogolyubsky 87E	32.1
32.1	mult	$\Xi^- X + \Xi^+ X$
(23 - 62.5)	Camilleri 87	(200 - 900)
1078	pt	(546 - 900)
(200 - 900)	Sedlak 88	(630)
	Angp, cs, mult, pt	$\bar{p} X$
(540)	Alner 85B	32.1
	Angp, cs, mult, p	(23 - 62.5)
K$^- X$	Sedlak 88	(200 - 900)
5.7	Angp, pt	(546)
32.1	Bogolyubsky 87E	(1800)
(23 - 62.5)	Camilleri 87	$p X + \bar{p} X + \pi^+ X + \pi^- X$
(200 - 900)	Angp, cs, mult, pt	Boos 85
(540)	Alner 85B	32.1
	Angp, cs, mult, p	(200 - 900)
K<math>^+ X + K$^- X$</math>	Burow 87	0.415
(200 - 900)	cs, mult	(200 - 900)
K$^0 X$	Bogolyubsky 88B	$\Delta(1232 P_{33})^{++} X$
32.1	mult	32.1
K$^0 X$	Bogolyubsky 87E	(23 - 62.5)
32.1	mult	$\Delta(1232 P_{33})^0 X$
K$^*(892)^+ X$	Sedlak 88	32.1
0.7 - 100	cs	(23 - 62.5)
32.1	Babintsev 88	$\bar{\Delta}(1232 P_{33})^{--} X$
	cs, p, pt	(23 - 62.5)
K$^*(892)^- X$	Sedlak 88	ΛX
0.7 - 100	cs	1.95 - 4
32.1	Babintsev 88	22.4
K<math>^*(892)^+ X + K$^*(892)^- X$</math>	Babintsev 88	Batyunya 85
32.1	p, pt	cs, mult, p, pol, pt
K$_2^*(1430)^+ X$	Babintsev 88	Bogolyubsky 88
32.1	cs	p
K$_2^*(1430)^- X$	Babintsev 88	Bogolyubsky 87C
32.1	cs	cs, p, pt
K$^\pm X$	Ansorge 88	Bogolyubsky 87E
(200 - 900)	cs, mult, pt	Bogolyubsky 86B
(546)	Ward 86B	cs, p, pt
(1800)	Alexopoulos 90	(23 - 62.5)
	mult, p, pt	(31 - 62)
K X	Sedlak 88	cs
0.1 - 7		

$\bar{p} p \rightarrow W^\pm X$ $\bar{p} p \rightarrow \phi \pi^0$

$\bar{p} p$									
$W^\pm X$	Albrow 88	cs							
	Gladney 90	cs							
$W^+ X$									
(540)	Rubbia 86	cs							
	Hanni 85	cs							
(540 - 630)	Albajar 87E	pt							
	Arnison 86C	cs, pt							
(540 - 1800)	Jenni 89	cs, pt							
(546 - 630)	Stubenrauch 89								
	ang, cs, p, pt								
	Plothowbesch 88	cs							
	Salvini 88	cs, p, pt							
	Ansari 87C	cs, p							
	Ansari 87F	cs							
	Cenci 87	cs							
	Albajar 86B	cs							
	Arnison 85D	cs							
(630)	Levi 85	cs, p, pt							
	Gan 88	cs							
	Mandelli 88	p							
	Repelli 87	cs, mass							
	Richard 87	pt							
(1800)	Abe 89B	cs							
$W^- X$									
(540)	Rubbia 86	cs							
	Hanni 85	cs							
(540 - 630)	Albajar 87E	pt							
	Arnison 86C	cs, pt							
(540 - 1800)	Jenni 89	cs, pt							
(546 - 630)	Stubenrauch 89								
	ang, cs, p, pt								
	Plothowbesch 88	cs							
	Salvini 88	cs, p, pt							
	Ansari 87C	cs, p							
	Ansari 87F	cs							
	Cenci 87	cs							
	Albajar 86B	cs							
	Arnison 85D	cs							
(630)	Levi 85	cs, p, pt							
	Gan 88	cs							
	Mandelli 88	p							
	Repelli 87	cs, mass							
	Richard 87	pt							
(1800)	Abe 89B	cs							
bottom X									
(630)	Albajar 88F	cs, pt							
?	Albajar 88E	cs							
bottom X									
(630)	Albajar 88E	cs, p, pt							
	Albajar 88F	cs, p, pt							
charged-hadron X									
(630 - 1800)	Abe 89L	cs, p, pt							
(1800)	Gladney 90	et, pt							
charm X									
(630)	Albajar 88F	cs, pt							
gluino X									
(546 - 630)	Albajar 87B								
(630)	Dowell 88								
(1800)	Sinervo 89	et, mass							
hadron X									
32.1	Bogolyubsky 87E	mult							
(630)	Botner 89	pt							
hadron ⁺ X									
(630)	Fransson 90	pt							
hadron ⁻ X									
(630)	Fransson 90	pt							
jet X									
5.7 - 12	Baldin 85	angp, p							
22.4	Baldin 85	angp, p							
(200 - 900)	Tao 88	cs, et, p							
	Cerradini 85	cs, mult, p							
	Albajar 88	pt							
(540)	Hanni 85	cs, pt							
	Savoynavarro 85								
(540 - 630)	Reya 85B								
(546)	Arnison 85E	p							
(546 - 630)	Tao 88	et							
	Arnison 86	pt							
$\bar{p} p$									
jet X									
(546 - 900)	Salvini 88	angp, p, pt							
(546 - 1800)	Jenni 89	et, pt							
(630)	Meier 89	pt							
	Albrow 88	pt							
	Albajar 87D	et, mult							
	Appel 85	pt							
	Hessing 90	pt							
(1800)	Abe 89	et							
	Abe 89C	et							
	Abe 89O	et							
	Geer 89	mult							
	Tonelli 89	pt							
		et							
monopole X									
(1800)	Price 87	cs							
mult[hadron] X									
5.7 - 12	Baldin 86B	col							
5.7 - 205	Baldin 87	col, p							
mult[jet] X									
5.7 - 22.4	Baldin 86	col							
(200 - 900)	Tao 88	mult							
(540 - 630)	Vuillemin 85								
(630)	Albajar 87D	mult							
(1800)	Sinervo 89	et, mass							
mult[A] X									
(200 - 900)	Pelzer 89	cs, mult, p, pt							
mult[\bar{A}] X									
(200 - 900)	Pelzer 89	cs, mult, p, pt							
mult[neutral] X									
1479	Angelis 85	p, pt							
q X									
(540)	Banner 85	cs							
(630)	Lyons 87								
$\bar{z} X$									
(630)	Dowell 88								
strange X									
32.1	Bogolyubsky 88B	p							
top X									
(540 - 1800)	Jenni 89								
(630)	Albajar 88G	cs							
	Dowell 88								
$\bar{top} X$									
(540 - 1800)	Jenni 89								
(630)	Albajar 88G	cs							
	Dowell 88								
t X									
(630)	Akesson 90C	p							
(1800)	Felcini 88								
	Geer 89								
	Sinervo 89	et, mass							
$\bar{t} X$									
(630)	Felcini 89								
unspec X									
(546 - 630)	Albajar 89B	cs							
X centauro									
(900)	Burov 87	p							
	Alner 86C	cs, p							
	Ward 86B	cs							
X \bar{q}									
(546 - 630)	Albajar 87B								
(630)	Dowell 88								
(neutrals) jet									
(546 - 630)	Albajar 86	p							
	Albajar 86B	p							
annihil charged									
0.7373 - 105.6	Sedlak 88	mult							
charged inelastic									
0.7373 - 105.6	Sedlak 88	mult							
mult[charged] mult[neutral]									
1.6	Sedlak 88	mult							
2 γ									
0	Adiels 86	cs							
3.621 - 5.755	Augustin 88C	ang, mass							
	Baglin 87	ang, mass							
$\bar{p} p$									
2 γ									
2 γ									
$e^- e^+$									
3.5 - 6.5	Baglin 87C	cs							
3.637 - 3.698	Baglin 85	angp, cs							
?	Sedlak 88	angp, cs							
$\pi^0 \gamma$									
?	Chiba 88	cs							
	Adiels 86	cs							
	Sedlak 88	cs							
2 π^0									
0	Chiba 88	cs							
	Adiels 86	cs							
1.1 - 2	Sedlak 88	amp, angp, cs, pol							
?	Sedlak 88	cs, cs							
	Chiba 87B	cs							
$\pi^+ \pi^-$									
0	Ahmad 86	cs							
0.158 - 0.275	Bardin 87B	angp, cs							
0.36 - 0.76	Tanimori 89B	cs							
0.39 - 0.78	Sugimoto 88	angp, cs, p							
0.7373 - 7.53	Tanimori 85	angp, cs, p							

$\bar{p} p \rightarrow \phi \pi^0$ $\bar{p} p \rightarrow \Lambda \bar{\Lambda}$

$\bar{p} p$	$\bar{p} p$	$\bar{p} p$
$\phi \pi^0$?		$p \bar{p}$
$\rho^0 \eta$ 0	Chiba 87B cs	0.359 - 0.625 Ashford 85B amp, ang
?	Chiba 89 cs	0.39 - 0.78 Kageyama 87 angp, cs
?	Adiels 88 cs	0.4 - 0.86 Timmers 84
?	Sedlak 88 cs	0.413 - 0.715 Iwasaki 85B amp, angp
$\omega \eta$ 0		0.497 - 1.55 Kunne 88
$b_1(1235)^+ \pi^- + b_1(1235)^- \pi^+$?	Sedlak 88 cs	Kunne 88B
$f_2(1270) \pi^0$?	Sedlak 88 cs	angp, cs, pol
$f_1(1285) \pi^0$ 0.702 - 0.757	Sedlak 88 cs	Kunne 88C
$a_2(1320)^0 \pi^0$ 0	Adiels 88 cs	angp, cs, pol
$a_2(1320)^+ \pi^-$ 0	Ahmad 84 p	0.542 - 0.556 Birsas 85
0.702 - 0.757	Sedlak 88 cs	0.55 - 1.077 Schiavon 89
$a_2(1320)^- \pi^+$ 0	Ahmad 84 p	amp, angp, cs
0.702 - 0.757	Sedlak 88 cs	0.6103 - 1.097 Sapozhnikov 86
$a_2(1320)^+ \pi^- + a_2(1320)^- \pi^+$?	Sedlak 88 cs	0.697 Bertini 89 angp, pol
$\eta' \eta$ 0	Chiba 89 cs	0.7 Bertini 88C angp, pol
?	Adiels 88 cs	0.7 - 0.76 Banerjee 85 angp, cs
$2\rho^0$?	Sedlak 88 cs	1.055 - 2.201 Sedlak 88
$\omega \rho^0$?	Sedlak 88 cs	1.91 - 1.99 Fickinger 86B
$f_1(1420) \pi^0$ 0.702 - 0.757	Sedlak 88 cs	3.65 - 5.65 Baglin 89B
2ω < 2	Hamann 90 angp, cs, pwa	8 - 12 Armstrong 87C
$\phi \eta$ 0	Chiba 89 cs	angp, cs
$f_2'(1525) \pi^0$ 0.702 - 0.757	Sedlak 88 cs	9.9 Armstrong 86F
$f_0(975) \rho^0$ 0.702 - 0.757	Sedlak 88 cs	10.1 - 100 Baller 88 angp, cs, pt
$\phi \rho^0$ 0.702 - 0.757	Sedlak 88 cs	Bogolyubsky 86F
$\phi \omega$ < 2	Hamann 90 angp, cs, pwa	12 angp, cs
2ϕ < 2	Hamann 90 angp, cs, pwa	(5 - 62) Chakrabarti 85
$f_2(1270) \omega$?	Sedlak 88 cs	22.4 Block 84 amp, angp, cs
$a_2(1320)^+ \rho^-$ 0.702 - 0.757	Sedlak 88 cs	Zlatanov 89 amp, angp
$a_2(1320)^- \rho^+$ 0.702 - 0.757	Sedlak 88 cs	Batunyua 85C angp, cs
$J/\psi(1S) \gamma$ 3.5 - 7.5	Baglin 87B ang, ang, mass, pwa	Asad 85 angp
baryonium γ 0	Omori 89 p	30 - 50 Bogolyubsky 89B
?	Chiba 87B cs	32.1 Bogolyubsky 84B
π^0 ($\pi^0 \eta$) ?	Sedlak 88 cs	(23 - 62.5) Camilleri 87
π^0 baryonium		amp, ang, angp, cs
π^0 mult[π^\pm] 5.6	Sedlak 88 cs	Breedon 89 angp
π^+ baryonium 0	Sapozhnikov 86	30.6 - 62.5 Amos 85 angp, cs
π^- baryonium 0	Sapozhnikov 86	31 - 62 Breakstone 85C angp
ρ^0 mult[π^\pm] 9.1	Sedlak 88 cs, mult	1496 Breakstone 85C angp
ω mult[π^\pm] 9.1	Sedlak 88 cs, mult	Erhan 85 angp, cs
K^+ baryonium 0	Sapozhnikov 86	(200 - 900) Schmickler 86
K^- baryonium 0	Sapozhnikov 86	(300 - 1800) Paoletti 89
$K^+ K^-$ 0	Ahmad 86 cs	(340) Alibrow 88 amp
0.36 - 0.76	Tanimori 89B angp, cs, p	(546) Bernard 87 amp, angp
0.39 - 0.78	Sugimoto 88 angp, cs, p	Bozzo 85 angp
0.7 - 2.12	Tanimori 85 angp, cs	(546 - 640) Ward 86B
0.7373 - 7.53	Sedlak 88 angp	(546 - 900) Janni 89
1.3 - 1.5	Bardin 87 cs	(630) Bernard 85 angp, cs
30 - 50	Asad 85 angp	(1800) Amos 90
?	Sedlak 88 cs	Amos 90B angp
$K^0 \bar{K}^0$ 0	Doser 88 cs	Amos 89 cs
$K^{*0}(892)^- K^+$ 0.702 - 0.757	Sedlak 88 cs	Amos 88 angp
$K^{*0}(892)^+ K^-$ 0.702 - 0.757	Sedlak 88 cs	Tonelli 88 angp
$K^{*0}(892)^0 K^+(892)^0$ 0.702 - 0.757	Sedlak 88 cs	Bertini 88B pol
$K^{*0}(892)^+ K^+(892)^-$ 0.702 - 0.757	Sedlak 88 cs	$n \bar{n}$
$K_2^+(1430)^- K^+$ 0.702 - 0.757	Sedlak 88 cs	0.18 - 0.6 Bruckner 86
$K_2^+(1430)^+ K^-$ 0.702 - 0.757	Sedlak 88 cs	0.39 - 0.78 Kageyama 87
$K^0 K_S$ 0.5 - 3	Sedlak 88 cs	0.7 - 0.76 Banerjee 85
$K^{*0}(892)^0 K_S$ 0.702 - 0.757	Sedlak 88 cs	1.653 - 1.731 Cresti 86
$\bar{K}^-(892)^0 K_S$ 0.702 - 0.757	Sedlak 88 cs	$\bar{p} N(1520 B)^+$
$K_2^+(1430)^0 K_S$ 0.702 - 0.757	Sedlak 88 cs	22.4 Batunyua 87F
$\bar{K}_2^+(1430)^0 K_S$ 0.702 - 0.757	Sedlak 88 cs	$\Delta(1232 P_{33})^{++} \bar{\Delta}(1232 P_{33})^{--}$
$K \bar{K}$ < 2	Hamann 90 angp, cs, pwa	22.4 Batunyua 87F
$K_S K_L$ 0	Doser 88 cs	Batunyua 86C
0.5 - 3	Sedlak 88 cs	angp, cs, pol
?	Sedlak 88 cs	$\Delta(1232 P_{33})^0 \bar{\Delta}(1232 P_{33})^0$
$2K_S$ 0	Doser 88 cs	22.4 Batunyua 86C
0.5 - 3	Sedlak 88 cs	$\bar{p} N(1700 B)^+$
1.3 - 1.58	Barnes 89 cs	22.4 Batunyua 87F
$p \bar{p}$ 0.1 - 100	Sedlak 88 cs	$\bar{p} N^*(\text{unspec})^+$
0.18 - 0.6	Bruckner 85 amp, angp	22.4 Batunyua 86D
0.1948 - 0.3104	Sapozhnikov 86 amp	$\Lambda \bar{\Lambda}$
0.202 - 0.609	Barnes 89B angp, angp, cs	1.435 - 1.447 Vonfrankenbe 89
0.233 - 0.272	Linssen 87 angp	1.435 - 1.92 Vonfrankenbe 89
0.29	Sedlak 88 amp, angp	1.435 - 1.45 Barnes 89 angp, cs, pol
		1.476 - 1.507 Barnes 89B
		Barnes 87 angp, cs, pol
		Barnes 85 angp, pol
		1.545 - 1.695 Vonfrankenbe 89

$\bar{p} p \rightarrow \Lambda \bar{\Lambda}$ $\bar{p} p \rightarrow 2\pi X$

$\bar{p} p$	$\bar{p} p$	$\bar{p} p$
$\Lambda \bar{\Lambda}$ 1.546 Barnes 87B asym	DD < X > \bar{p} 32.1 Bogolyubsky 89B cs Bogolyubsky 89D angp (200 - 900) Ansoerge 86	$e^- e^+ X$ 5.586 - 5.624 Baglin 86B mass (540) Rubbia 86 mass, p, pt Bagnaia 84E ang, mass, pt
$\Lambda \bar{\Lambda} + \Sigma^0 \bar{\Sigma}^0$ 3.15 - 7.9 Bachman 86 angp, pol	(546) Bernard 86B cs, mult, p, pt (1800) Amos 90 angp, cs, mass	(546 - 630) Ansari 87C ang, mass, pt Ansari 87D mass, pt Appel 86 mass
$\Lambda \bar{\Sigma}^0$ 1.695 Barnes 90 angp, cs, pol	DD < p X > $\bar{\Delta}(1232 P_{33})^{--}$ 32.1 Bogolyubsky 89D angp	$\mu^\pm \nu_\mu X$ (200 - 900) Ansoerge 88 mass
$\bar{\Lambda} \Sigma^0$ 1.695 Barnes 90 angp, cs, pol Vonfrankenbe 89 angp, cs	DD < $\pi^+ X$ > $\bar{\Delta}(1232 P_{33})^{--}$ 32.1 Bogolyubsky 89D angp	$\mu^+ e^- X$ (1800) Barbarogalti 90 pt
γ jet (1800) Blair 89 angp	DD < $\pi^- X$ > $\bar{\Delta}(1232 P_{33})^{--}$ 32.1 Bogolyubsky 89D angp	$\mu^- e^+ X$ (1800) Barbarogalti 90 pt
π^0 annihil Sedlak 88 mult, p	$\bar{i} t$ (1800) Barbarogalti 90 cs	π^+ mult[charged] X 22.4 - 24 Batyunya 90 p
π^\pm annihil 8.8 - 9.1 Sedlak 88 p ? Sedlak 88 mult, p	2jet 4.6 - 12 Markytan 89 col, pt (540) Savoynavarro 85 -	$\mu^- \mu^+ X$ (540) Rubbia 86 mass, p, pt Arnison 85 ang, mass, pt
π^+ annihil 12 - 1078 Sedlak 88 p	DD < $\bar{p} \pi^0$ > DD < p $\pi^+ \pi^-$ > 22.4 Batyunya 87E angp, cs	(540 - 630) Albajar 87C ang, mass, pt
π^- annihil 12 - 1078 Sedlak 88 p	DD < $\bar{p} \pi^+ \pi^-$ > DD < p π^0 > 22.4 Batyunya 87E angp, cs	Albajar 86C ang, mass, pt
π annihil ? Sedlak 88 mult, p	DD < X > DD < X > (200 - 900) Ansoerge 86 cs	(546 - 630) Tao 88 ang, cs, pt Summers 87 ang, cs, cs, mass, p
ρ^0 annihil 9.1 - 405 Sedlak 88 p	$\bar{e}^- \bar{z}^+$ (630) Repellin 87 cs, mass	Albajar 88C pt Albajar 88D pt Albajar 88E mass, p, pt Albajar 88F et, pt Albajar 88G cor, et, pt Liss 90 mass, pt
$f_2(1270)$ annihil 9.1 Sedlak 88 p	charged⁺ charged⁻ X (1800) Abe 89H pt	2μ^+ X (540) Arnison 85 ang, mass, pt
K_S annihil 9.1 - 405 Sedlak 88 p	2charged X 32.1 Bogolyubsky 86 ang, cor	(540 - 630) Albajar 87C ang, mass, pt
DD < jet X > p (630) Bonino 88 angp, cs, mass, p	200 Derado 88 a-dep, cor, mult, p (53 - 63) Kvatadze 88 angp, cor, p	Albajar 86C ang, mass, pt
DD < \bar{p} > p (200 - 900) Schmickler 86 cs	(62) Breakstone 86B p, pt (200 - 900) Asman 88 cor, mult, p (630 - 1800) Eckart 88 cor Binkley 90 cor	(546 - 630) Tao 88 ang, mass, pt Summers 87 cs
DD < $\bar{p} \pi^+ \pi^-$ > p 22.4 Batyunya 87F angp, cs, mass Batyunya 86C angp, cs	2charged⁺ X (200 - 900) Albajar 89 cor, p	2μ^- X (540) Arnison 85 ang, mass, pt
DD < $\bar{p} \pi^+ \pi^0 \pi^-$ > p 22.4 Batyunya 87E angp, cs	2charged⁻ X (200 - 900) Albajar 89 cor, p	(540 - 630) Albajar 87C ang, mass, pt
DD < X > p (200 - 900) Ansoerge 86 cs, mult, p, pt (1800) Amos 90 cs	charged⁻ mult[charged] (neutrals) 32.1 Bogolyubsky 88 p	Albajar 86C ang, mass, pt
DD < γX > \bar{p} 32.1 Bogolyubsky 89D angp	2charged (neutrals) inelastic 12 Chakrabarti 85 cs	(546 - 630) Tao 88 ang, mass, pt Summers 87 cs
DD < $K^0 X$ > \bar{p} 32.1 Bogolyubsky 89D angp	γ charged X (200 - 900) Ansoerge 89 cor	$\mu^- \mu^+ X + e^- e^+ X$ (540 - 630) Vuillemin 85 -
DD < ΛX > \bar{p} 32.1 Bogolyubsky 89D angp	2γX 12 Chakrabarti 85 mass 313.7 Valenti 85 mass (540 - 630) Albajar 88B angp, pt (630) Pare 90 mass	$\pi^+ \pi^0 X$ (200 - 900) Ansoerge 88 mass
DD < p $2\pi^+ 2\pi^-$ > \bar{p} 32.1 Bogolyubsky 87B angp, cs, mass, p	Albrow 88 pt Ansari 88B angp, p, pt	2π^+ X 32.1 Bumazhnov 86 cor, p 1496 Akesson 86F cor, pt (200 - 900) Albajar 89 cor, p
DD < p > \bar{p} (200 - 900) Schmickler 86 cs	$e^\pm \nu X$ (546 - 630) Appel 86 pt	2π^- X 32.1 Bumazhnov 86 cor, p 1496 Akesson 86F cor, pt (200 - 900) Albajar 89 cor, p
DD < p $\pi^+ \pi^-$ > \bar{p} 22.4 Batyunya 87F angp, cs, mass Batyunya 86C angp, cs	$e^+ \gamma X$ (546 - 630) Ansari 87D	$\pi^+ \pi^- X$ 12 - 22.4 Batyunya 87J angp, mass
DD < p $\pi^+ \pi^0 \pi^-$ > \bar{p} 22.4 Batyunya 87E angp, cs	$e^- \gamma X$ (546 - 630) Ansari 87D	32.1 Bumazhnov 86 cor, p Kozlovsky 86 mass, p, pt
DD < p $\rho^0 \pi^+ \pi^-$ > \bar{p} 32.1 Bogolyubsky 87B cs	e^+ neutral X (546 - 630) Ansari 87C	(23 - 62.5) Camilleri 87 p (200 - 900) Ansoerge 88 mass (630 - 1800) Abe 89L mass
DD < p X > \bar{p} 32.1 Bogolyubsky 89D angp	e^- neutral X (546 - 630) Ansari 87C	2πX 22.4 Sedlak 88 p
DD < $\pi^+ X$ > \bar{p} 32.1 Bogolyubsky 89D angp	$e^+ \nu_e X$ (1800) Abe 89B et, mass	
DD < π^- > \bar{p} 32.1 Bogolyubsky 89D angp	$e^- \bar{\nu}_e X$ (1800) Abe 89B et, mass	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p p \rightarrow$ bottom bottom X $p p \rightarrow \mu^- \mu^+$ mult[jet] X

$p p$	$p p$	$p p$
bottom bottom X (546 - 630) Summers 87 cs (630) Albajar 88C cs, pt Albajar 88D cs, p, pt Dowell 88 cs	K_S mult[charged] (neutrals) 22.4 Batyunya 85 cs 32.1 Bogolyubsky 87C cs, mult, p	$p \Delta(1232 P_{33})^{--} \pi^+$ 22.4 Batyunya 86C angr, cs
gluino X \bar{q} (546 - 630) Plothowbesch 88 cs (630) Alitti 89 -	$K^*(892)^{\pm}$ mult[charged] (neutrals) + $K^*(892)^-$ mult[charged] (neutrals) 32.1 Babintsev 88 cs, mult	$p \bar{p} \rho^0$ 22.4 Batyunya 87F angr, cs, cs
$\bar{t} t$ X (630) Albajar 90E cs (630 - 1800) Barbarogalti 89 - (1800) Tonelli 89 -	p mult[charged] (neutrals) 24 Batyunya 89 cs, p (630) Bonino 88 angr, et, p	$p \bar{p} \omega$ 22.4 Batyunya 87E angr, cs Batyunya 86D cs
X $\bar{q} \bar{q}$ (630) Alitti 89 -	\bar{p} charged+ (neutrals) 32.1 Bogolyubsky 89B mult, p	$\bar{p} \Delta(1950 B)^{++} \pi^-$ 22.1 Batyunya 86C angr, cs
X $2\bar{q}$ (546 - 630) Plothowbesch 88 cs	\bar{p} mult[charged] (neutrals) 32.1 Bogolyubsky 89B angr, mult, p, p Bogolyubsky 87 cs	$p \Delta(1750 B)^{-} \pi^+$ 22.4 Batyunya 86C angr, cs
2gluino X (546 - 630) Plothowbesch 88 cs (630) Alitti 89 -	Λ mult[charged] (neutrals) 22.4 Batyunya 85 cs (1800) Banerjee 89 p, pt	$\bar{p} \Lambda K^+$ 32.1 Bogolyubsky 86C cs
2jet X (200 - 900) Albajar 87 ang, et (540 - 630) Tao 88 ang Reya 85B ang Arnison 86D ang	$\bar{\Lambda}$ mult[charged] (neutrals) 22.4 Batyunya 85 cs (1800) Banerjee 89 p, pt	$2\pi^+ \text{ annihil}$ 101 Sedlak 88 p 12 Sedlak 88 p
(546) Arnison 85C mult, p, pt Sphic... 88 angr, p	$\Sigma(1385 P_{13})^+$ mult[charged] (neutrals) 32.1 Babintsev 86 cs, mult	$DD < \pi^+ \pi^- > p \bar{p}$ 22.4 Kanazirski 87 cs, mass, p
(546 - 630) Sphic... 88 angr, p, pt Tao 88 angr, mass, p, pt Ansari 87D pt Salvini 88 pt	W^{\pm} mult[charged] (neutrals) (546 - 630) Appel 86 mult	W^{\pm} (jets) jet (630) Repellin 87 mass, p, pt
(546 - 900) Salvini 88 angr, mass, p, pt (630) Alitti 90D angr, mass Jenni 89 angr Meier 89 angr	annihil mult[charged] (neutrals) 32.1 Bogolyubsky 87E mult	(jets) 2jet (540) Savoynavarro 85 - (630) Ansari 87 p, pt
Albajar 88H angr, mass Albajar 87D et Ansari 87B mass Arnison 86B angr, mass	$e^- e^+ \gamma$ 5.51 - 29.02 Baglin 86 mass, p	2hadron (hadrons) (200 - 900) Albajar 88 et (546 - 630) Sphic... 88 angr, col, pt (630) Albajar 87D angr, et, p (1800) Albrow 88 et
Appel 85 pt Appel 85B et Appel 85C angr, pt (1800) Abe 90B - Abe 89N angr Abe 89S mass Geer 89 ang, mass, pt Hubbard 89B et, p, pt Tonelli 89 angr Abe 89D angr, cs, p, pt	$\pi^+ \pi^0 \pi^-$ 1.449 - 4.289 Sedlak 88 cs ? Sedlak 88 cs	3jet (540) Savoynavarro 85 -
$\pi^+ \pi^-$ (neutrals) 1.25 - 1.55 Sculli 87 cs, mass 5.7 - 22.4 Batyunya 55B angr, mass	$\eta \pi^+ \pi^-$? Sedlak 88 cs	$\mu^- \mu^+ \gamma X + e^- e^+ \gamma X$ (540 - 630) Vuillemin 85 -
ρ^0 neutral (neutrals) 5.7 - 22.4 Batyunya 85B angr	$\rho^0 \pi^+ \pi^-$ 1 - 8 Sedlak 88 cs ? Sedlak 88 cs	$\pi^+ \pi^0 \pi^- X$ 12 Chakrabarti 85 mass
$K^+ K^-$ (neutrals) 1.25 - 1.55 Sculli 87 cs, mass	$\omega \pi^+ \pi^-$ 0.7 - 7.2 Sedlak 88 cs 1 - 8 Sedlak 88 cs ? Sedlak 88 cs	$2\pi^+ \pi^- X$ (200 - 900) Ansorge 88 mass
γ mult[charged] (neutrals) 12 Chakrabarti 85 cs 32.1 Bogolyubsky 88E cs, mult	$\eta(1295) 2\pi$ 0 Toki 88B -	$\pi^+ 2\pi^- X$ (200 - 900) Ansorge 88 mass
π^0 mult[charged] (neutrals) 4.6 Sedlak 88 mult	$f_1(1285) \pi^+ \pi^-$? Duch 89 -	$\pi^0 \pi^{\pm} (\pi^0 \eta) X$ (540) Savoynavarro 85 -
π^+ mult[charged] (neutrals) 32.1 Bogolyubsky 88 p	$f_1(1440) \pi^+ \pi^-$? Duch 89 -	$K^+ K_S \pi^- X$ 6.6 Reeves 86 mass, pwa
ρ^0 mult[charged] (neutrals) 32.1 Kozlovsky 86 cs, mult	$\eta(1440) 2\pi$ 0 Toki 88B -	$3K_S X$ 32.1 Bogolyubsky 87C cs, p, pt
$f_2(1270)$ mult[charged] (neutrals) 32.1 Kozlovsky 86 cs, mult	baryonium γ (γ's) 0 May 89 p	$p 2\pi^- X$ (200 - 900) Ansorge 89B cs
mult[γ] mult[charged] (neutrals) 12 Chakrabarti 85 cor, mult	$\rho^0 \pi^0$ mult[π^{\pm}] 9.1 Sedlak 88 cs, mult	$\Lambda 2K_S X$ 32.1 Bogolyubsky 87C cs, p, pt
	$K^+ K_S \pi^- + K_S K^- \pi^+$ 0.3014 - 1.914 Sedlak 88 cs 5.7 Sedlak 88 cs	$\bar{\Lambda} 2K_S X$ 32.1 Bogolyubsky 87C cs, p, pt
	$2K_S \pi^0$ 0.3014 - 1.914 Sedlak 88 cs 5.7 Sedlak 88 cs	$\Lambda \bar{\Lambda} K_S X$ 32.1 Bogolyubsky 87C cs, p, pt
	$p \bar{p} \pi^0$ 22.4 Batyunya 86 cs	$\Lambda 2\bar{\Lambda} X$ 32.1 Bogolyubsky 87C cs, p, pt
	$n \bar{p} \pi^+$ 22.4 Batyunya 86 cs	$2\Lambda \bar{\Lambda} X$ 32.1 Bogolyubsky 87C cs, p, pt
	$p \bar{n} \pi^-$ 22.4 Kanaz ski 89 ang, cs Batyunya 86 cs	mult[p] 2charged X 200 Derado 88 a-dep, cor, mult, p
	$\bar{p} \Delta(1232 P_{33})^{++} \pi^-$ 22.4 Batyunya 86C angr, cs	$\mu^- \mu^+$ mult[jet] X (546 - 630) Summers 87 -

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\bar{p} p$	$\bar{p} p$	$\bar{p} p$
DD p 2X 32.1	Bogolyubsky 87	cs
ν (jets) jet X (546 - 630)	Appel 86	pt
e^+ (jets) jet X (630)	Albajar 88G	cor, et, pt
e^- (jets) jet X (630)	Albajar 88G	cor, et, pt
μ^+ (jets) jet X (630)	Albajar 88F Albajar 88G	et, pt cor, et, pt
μ^- (jets) jet X (630)	Albajar 88F Albajar 88G	et, pt cor, et, pt
Z^0 (jets) jet X (546 - 630)	Appel 86	pt
W^\pm (jets) jet X (540 - 630)	Vuillemin 85 Appel 86	- mass, pt
W^\pm 2jet X (546 - 630) (1800)	Ruhlmann 88 Watts 90 Geer 89 Kamon 89	cs pt mass, pt pt
W^+ (jets) jet X (546 - 630)	Ansari 87C	et, mass
W^- (jets) jet X (546 - 630)	Ansari 87C	et, mass
W^+ 2jet X (540 - 630)	Albajar 87E	cor, mass, pt
?	Sphicas 88	mass, pt
W^- 2jet X (540 - 630)	Albajar 87E	cor, mass, pt
?	Sphicas 88	mass, pt
3jet X (540 - 630)	Tao 88 Reya 85B Arnison 85C	ang - -
(546 - 630)	Sphicas 88	ang, angr, p
(546 - 630)	Ansari 87D Appel 85C	mass, p pt
		ang, angr, mass, p, pt
$\rho^0 \pi^+ \pi^-$ (neutrals) 5.7	Sedlak 88	amp
neutral (neutrals) 2jet (546 - 630)	Batyunya 87J	ang, pol
π^0 mult[charged] neutral (neutrals) 32.1	Albajar 87B Bogolyubsky 88	ang, et p
$2\pi^+$ mult[charged] (neutrals) 32.1	Bumazhnov 86	cor, p
$2\pi^-$ mult[charged] (neutrals) 32.1	Bumazhnov 86	cor, p
$\pi^+ \pi^-$ mult[charged] (neutrals) 32.1	Bumazhnov 86	cor, p
K_S mult[charged] neutral (neutrals) 32.1	Bogolyubsky 88	p
$K_S \pi^+$ mult[charged] (neutrals) 32.1	Babintsev 88	mass
$K_S \pi^-$ mult[charged] (neutrals) 32.1	Babintsev 88	mass
$2K_S$ mult[charged] (neutrals) 32.1	Bogolyubsky 87C	cs, mult, p
$\bar{p} \pi^0$ mult[charged] (neutrals) 32.1	Bogolyubsky 89B	cs, mult
$p \pi^+$ mult[charged] (neutrals) 24	Batyunya 89	p, pt
$p \pi^-$ mult[charged] (neutrals) 24	Batyunya 89	p, pt
$\bar{\Lambda}$ mult[charged] neutral (neutrals) 32.1	Bogolyubsky 88	mult, p, p
$\bar{p} K^0$ mult[charged] (neutrals) 32.1	Bogolyubsky 89B	mult, p
ΛK_S mult[charged] (neutrals) 32.1	Bogolyubsky 87C	cs, mult, p
$p \bar{p}$ mult[charged] (neutrals) 32.1	Chekulaev 88B	ang, mass, mult, p
$\bar{p} \Lambda$ mult[charged] (neutrals) 32.1	Bogolyubsky 89B	mult, p
W^\pm mult[charged] (neutrals) 0jet (546 - 630)	Appel 86	mult
$2\pi^+ 2\pi^-$ 0	Doser 88	mass
1.2 - 9.2	Sedlak 88	ang
1.449 - 4.289	Sedlak 88	cs
4.6 - 12	Markyatan 89	col, pt
5.7	Sedlak 88	col, p
9	Sedlak 88	col
32.1	Sedlak 88 Bogolyubsky 86C Bogolyubsky 86D	cs cs col
?	Sedlak 88	col
4π 0.3014 - 2.793	Sedlak 88	cs
4.6	Sedlak 88	pt
$\rho^0 \pi^+ \pi^0 \pi^-$ 1 - 8	Sedlak 88	cs
?	Sedlak 88	cs
$\rho^+ \pi^+ 2\pi^- + \rho^- 2\pi^+ \pi^-$?	Sedlak 88	cs
$f_2(1270) \pi^+ \pi^0 \pi^-$ 1 - 8	Sedlak 88	cs
$\pi^+ \pi^0 \pi^- (\pi^0's)$?	Sedlak 88	cs
$2K^+ 2K^-$ 3.742	Baglin 89C	mass
π^0 exotic-meson γ ($\gamma's$) 0	May 89	p
$K^+ K_S \pi^0 \pi^- + K_S K^- \pi^+ \pi^0$ 5.7	Sedlak 88	cs
$K_S K_L \pi^+ \pi^-$ 5.7	Sedlak 88	cs
$2K_S \pi^+ \pi^-$ 5.7	Sedlak 88	cs
$p \bar{p} \pi^+ \pi^-$ 1.435 - 1.45	Barnes 89	mass
1.476 - 1.507	Barnes 89B	mass
1.546	Barnes 87B	mass
4.6 - 12	Markyatan 89	col, pt
9	Sedlak 88	col
22.4	Batyunya 87F	ang, cs, mass
	Kanazirski 87	cs, mass, p
	Batyunya 86C	cs, mass
	Bogolyubsky 86C	cs
	Bogolyubsky 86G	cs
		cor, p, pt
(62)	Breakstone 86B	ang, mass
$\bar{p} \Delta(1232 P_{33})^{++} \pi^0 \pi^-$ 22.4	Batyunya 87E Batyunya 86D	ang, cs cs
$p \bar{\Delta}(1232 P_{33})^{--} \pi^+ \pi^0$ 22.4	Batyunya 87E	ang, cs
$\bar{p} N_{3/2}^+(1480)^{+++} 2\pi^-$ 32.1	Bogolyubsky 86E	cs
$p \bar{p} \rho^0 \pi^0$ 22.4	Batyunya 86D	cs
$p \bar{p} \rho^+ \pi^-$ 22.4	Batyunya 87E	ang, cs
$p \bar{p} \rho^- \pi^+$ 22.4	Batyunya 87E	ang, cs
$p \bar{p} \rho^+ \pi^- + p \bar{p} \rho^- \pi^+$ 22.4	Batyunya 86D	cs
$\Lambda \bar{\Lambda} \pi^+ \pi^-$ 32.1	Bogolyubsky 86C	cs
$\bar{p} \Lambda K^0 \pi^+$ 32.1	Bogolyubsky 86C	cs
$p \bar{p} K^+ K^-$ 32.1	Bogolyubsky 86C	cs
$p \bar{p} K^0 \bar{K}^0$ 32.1	Bogolyubsky 86C	cs
$2p 2\bar{p}$ 32.1	Bogolyubsky 86C	cs
$\mu^- \mu^+$ (jets) jet (630)	Albajar 88C	mass, pt
e^\pm (jets) 2jet (1800)	Sinervo 89	et, mass
Z^0 2hadron (hadrons) (546 - 630)	Ansari 87C	et, pt
W^+ 2hadron (hadrons) (546 - 630)	Ansari 87C	et, pt
W^- 2hadron (hadrons) (546 - 630)	Ansari 87C	et, pt
$2\pi^+ 2\pi^- X$ 5.7	Sedlak 88	p
$\Lambda \bar{\Lambda} 2K_S X$ 32.1	Bogolyubsky 87C	cs, p, pt
2γ 2jet X (546 - 630)	Ansari 87D	mass, pt
W^\pm (jets) 2jet X (1800)	Kamon 89	mass
4jet X (546 - 630)	Sphicas 88 Ansari 87D Meier 89	mass, p pt col, mass
$2\pi^+ 2\pi^-$ (neutrals) 5.7	Batyunya 87J	ang, mass
5.7 - 22.4	Batyunya 85B	ang, mass
e^\pm neutral (neutrals) (jets) jet (630)	Akesson 90C	p
W^\pm charged (charged) (neutrals) 0jet (546 - 630)	Appel 86	pt
$\pi^+ \pi^0 \pi^- \gamma$ ($\gamma's$) 0	May 89	mass, p
$2\pi^+ \pi^0 2\pi^-$ < 0.7	Sedlak 88	p
1.449 - 4.289	Sedlak 88	cs
4.6 - 12	Markyatan 89	col, pt
5.7	Sedlak 88	p
32.1	Sedlak 88 Bogolyubsky 86C Bogolyubsky 86D	cs cs col
?	Sedlak 88	cs
5π 0.3014 - 2.793	Sedlak 88	cs
4.6	Sedlak 88	pt

$\bar{p} p \rightarrow \eta 2\pi^+ 2\pi^-$ $\bar{p} p \rightarrow 6\pi^+ 6\pi^-$

$\bar{p} p$			$\bar{p} p$			$\bar{p} p$			
$\eta 2\pi^+ 2\pi^-$?	Sedlak 88	cs	$K^+ K_S \pi^+ \pi^0 2\pi^- + K_S K^- 2\pi^+ \pi^0 \pi^-$ +			2γ 5jet X (546 - 630)	Ansari 87D	mass, pt	
$\rho^0 2\pi^+ 2\pi^-$ 1 - 8	Sedlak 88	cs	$K^0 K_S 2\pi^+ \pi^0 2\pi^-$ 12	Sedlak 88	angp	4π^+ 4π^- 1.449 - 4.289	Sedlak 88	cs	
$\omega 2\pi^+ 2\pi^-$ 1 - 8	Sedlak 88	cs	$K^+ K_S \pi^+ \pi^0 2\pi^- + K_S K^- 2\pi^+ \pi^0 \pi^-$ 5.7	Sedlak 88	cs	4.6 - 12	Markytan 89	col, pt	
$\eta' 2\pi^+ 2\pi^-$?	Sedlak 88	cs	$K_S K_L 2\pi^+ 2\pi^-$ 5.7	Sedlak 88	cs	32.1	Sedlak 88	cs	Bogolyubsky 86C
$f_2(1270) 2\pi^+ 2\pi^-$ 1 - 8	Sedlak 88	cs	$2K_S 2\pi^+ 2\pi^-$ 0.76	Sedlak 88	p	8 π	4.6	Sedlak 88	pt
$K^+ K^0 \pi^+ 2\pi^- + K^0 K^- 2\pi^+ \pi^-$ 32.1	Bogolyubsky 86C	cs	5.7	Sedlak 88	p	$K^+ K_S 2\pi^+ \pi^0 3\pi^- + K^0 K_S 3\pi^+ 3\pi^- +$ $K_S K^- 3\pi^+ \pi^0 2\pi^-$	12	Sedlak 88	col, cs
$K^+ K_S \pi^+ 2\pi^- + K_S K^- 2\pi^+ \pi^-$ 0	Augustin 85E	-	$p \bar{p} 2\pi^+ 2\pi^-$ 4.6 - 12	Markytan 89	col, pt	$K^+ K_S 2\pi^+ \pi^0 3\pi^- + K_S K^- 3\pi^+ \pi^0 2\pi^-$ +	12	Sedlak 88	col, cs
5.7	Sedlak 88	cs	9	Boos 89	col	$K^0 K_S 3\pi^+ \pi^0 3\pi^-$ 12	Sedlak 88	angp	
12	Sedlak 88	cs	32.1	angp, asym, cs, mass, p		$p \bar{p} 3\pi^+ 3\pi^-$ 4.6 - 12	32.1	Markytan 89	col, pt
$2K_S \pi^+ \pi^0 \pi^-$ 5.7	Sedlak 88	cs		Bogolyubsky 86C	col	32.1	Bogolyubsky 86C	col, pt	
K_S kaon 3 π 0	Toki 88B	mass, pwa		Bogolyubsky 86E	cs	32.1	Bogolyubsky 86D	col	
$p \bar{p} \pi^+ \pi^0 \pi^-$ 22.4	Batyunya 87E	cs, mass	$\bar{p} \Delta(1232 P_{33})^{++} \pi^+ \pi^0 2\pi^-$ 22.4	Boos 89	cs	$\Lambda \bar{\Lambda} 3\pi^+ 3\pi^-$ 32.1	Bogolyubsky 86C	cs	
	Batyunya 86D	cs	$\bar{n} \Delta(1232 P_{33})^{++} \pi^+ 3\pi^-$ 22.4	Boos 89	cs	$\bar{p} \Lambda K^0 3\pi^+ 2\pi^-$ 32.1	Bogolyubsky 86C	cs	
$p \bar{n} \pi^+ 2\pi^-$?	Tsukerman 85	mass, p	$\Lambda \bar{\Lambda} 2\pi^+ 2\pi^-$ 32.1	Bogolyubsky 86C	cs	$p \bar{p} K^0 \bar{K}^0 2\pi^+ 2\pi^-$ 32.1	Bogolyubsky 86C	cs	
$\bar{p} \Delta(1232 P_{33})^{++} \pi^+ 2\pi^-$ 22.4	Boos 89	cs	$\bar{p} \Lambda K^0 2\pi^+ \pi^-$ 32.1	Bogolyubsky 86C	cs	2γ 6jet X (546 - 630)	Ansari 87D	mass, pt	
32.1	Bogolyubsky 86E	cs	$p \bar{p} K^0 K^0 \pi^+ \pi^-$ 32.1	Bogolyubsky 86C	cs	4π^+ π^0 4π^- 1.449 - 4.289	Sedlak 88	cs	
$p \bar{\Delta}(1232 P_{33})^{--} 2\pi^+ \pi^-$ 32.1	Bogolyubsky 86E	cs	$2p 2\bar{p} \pi^+ \pi^-$ 32.1	Bogolyubsky 86C	cs	4.6 - 12	Markytan 89	col, pt	
$p \bar{p} \rho^0 \pi^+ \pi^-$ 32.1	Bogolyubsky 86E	cs	2γ 4jet X (546 - 630)	Ansari 87D	mass, pt	32.1	Sedlak 88	cs	Bogolyubsky 86C
$\bar{p} \Lambda K^+ \pi^+ \pi^-$ 32.1	Bogolyubsky 86C	cs	6jet X (546 - 630)	Ansari 87D	pt	0π 4.6	Sedlak 88	pt	
$p \bar{p} K^+ K^0 \pi^- + p \bar{p} K^0 K^- \pi^+$ 32.1	Bogolyubsky 86C	cs	$3\pi^+ \pi^0 3\pi^-$ 1.449 - 4.289	Sedlak 88	cs	$3\pi^+ 2\pi^0 3\pi^- (\pi^0\text{'s})$?	Sedlak 88	cs	
4charged (charged) (neutrals) 32.1	Babintsev 86B	col	4.6 - 12	Markytan 89	col, pt	$K^+ \bar{K}^0 3\pi^+ 4\pi^- + K^0 K^- 4\pi^+ 3\pi^-$ 32.1	Bogolyubsky 86C	cs	
$2\pi^+ \pi^0 \pi^- (\pi^0\text{'s}) X +$ $\pi^+ \pi^0 2\pi^- (\pi^0\text{'s}) X$ (540)	Savoynavarro 85	-	32.1	Bogolyubsky 86C	cs	$\bar{p} \Lambda K^+ 3\pi^+ 3\pi^-$ 32.1	Bogolyubsky 86C	cs	
2γ 3jet X (546 - 630)	Ansari 87D	mass, pt	?	Sedlak 88	angp, col	$p \bar{p} K^+ K^0 2\pi^+ 3\pi^- +$ $p \bar{p} K^0 K^- 3\pi^+ 2\pi^-$	32.1	Bogolyubsky 86C	cs
5jet X (546 - 630)	Ansari 87D	pt	7 π	4.6	Sedlak 88	pt	5π^+ 5π^- 1.449 - 4.289	Sedlak 88	cs
$K^+ \pi^+ 2\pi^-$ neutral (neutrals) 0	Duch 89	ang, mass	$\rho^0 3\pi^+ 3\pi^-$ 1 - 8	Sedlak 88	cs	32.1	Sedlak 88	cs	Bogolyubsky 86C
$K^- 2\pi^+ \pi^-$ neutral (neutrals) 0	Duch 89	ang, mass	$2\pi^+ 2\pi^0 2\pi^- (\pi^0\text{'s})$?	Sedlak 88	cs	32.1	1.449 - 4.289	Sedlak 88	col
$3\pi^+ 3\pi^-$ 1.449 - 4.289	Sedlak 88	cs	$K^+ \bar{K}^0 2\pi^+ 3\pi^- + K^0 K^- 3\pi^+ 2\pi^-$ 32.1	Bogolyubsky 86C	cs	$p \bar{p} 4\pi^+ 4\pi^-$ 32.1	Bogolyubsky 86C	col	
4.6 - 12	Markytan 89	col, pt	$K^+ K_S 2\pi^+ 3\pi^- + K_S K^- 3\pi^+ 2\pi^-$ 12	Sedlak 88	cs	32.1	Bogolyubsky 86C	col	
9	Sedlak 88	col	$2K_S 2\pi^+ \pi^0 2\pi^-$ 5.7	Sedlak 88	cs	$5\pi^+ \pi^0 5\pi^-$ 1.449 - 4.289	Sedlak 88	cs	
32.1	Bogolyubsky 86C	cs	$p \bar{p} 2\pi^+ \pi^0 2\pi^-$ 22.4	Boos 89	angp, asym, cs, mass, p	32.1	Sedlak 88	cs	Bogolyubsky 86C
?	Sedlak 88	cs	$n \bar{p} 3\pi^+ 2\pi^-$ 22.4	Boos 89	cs	$K^+ \bar{K}^0 4\pi^+ 5\pi^- + K^0 K^- 5\pi^+ 4\pi^-$ 32.1	Bogolyubsky 86C	col	
$\pi^- 5\pi$ 9.1	Sedlak 88	col	$p \bar{n} 2\pi^+ 3\pi^-$ 22.4	Boos 89	angp, asym, cs, mass, p	$p \bar{p} K^+ K^0 3\pi^+ 4\pi^- +$ $p \bar{p} K^0 K^- 4\pi^+ 3\pi^-$	32.1	Bogolyubsky 86C	cs
6π 4.6	Sedlak 88	pt	$\bar{p} \Lambda K^+ 2\pi^+ 2\pi^-$ 32.1	Bogolyubsky 86C	cs	6π^+ 6π^- 32.1	Sedlak 88	cs	
$\rho^0 2\pi^+ \pi^0 2\pi^-$ 1 - 8	Sedlak 88	cs	$p \bar{p} K^+ K^0 \pi^+ 2\pi^- +$ $p \bar{p} K^0 K^- 2\pi^+ \pi^-$	32.1	Bogolyubsky 86C	cs	32.1	Sedlak 88	cs
$2\pi^+ \pi^0 2\pi^- (\pi^0\text{'s})$?	Sedlak 88	cs		32.1	Bogolyubsky 86C	cs			
$K^+ K_S \pi^+ \pi^0 2\pi^- + K^0 K_S 2\pi^+ 2\pi^- +$ $K_S K^- 2\pi^+ \pi^0 \pi^-$ 12	Sedlak 88	col, cs							

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p p \rightarrow p \bar{p} 5\pi^+ 5\pi^-$ $\bar{p} \text{ } ^4\text{He} \rightarrow X$

$p p$		$\bar{p} n$		\bar{p} deuteron	
$p \bar{p} 5\pi^+ 5\pi^-$ 32.1	Bogolyubsky 86C	cs	$2\pi^+ \pi^0 3\pi^-$ 9.2	Sedlak 88	cs
$6\pi^+ \pi^0 6\pi^-$ 32.1	Sedlak 88 Bogolyubsky 86C Bogolyubsky 86D	cs cs col	$\rho^0 2\pi^+ 3\pi^-$ 4.33 - 9.2	Sedlak 88	mult
$p \bar{p} 6\pi^+ 6\pi^-$ 32.1	Bogolyubsky 86C	cs	$\omega 2\pi^+ 3\pi^-$ 4.33 - 9.2	Sedlak 88	mult
$\bar{p} n$			$2\pi^+ 3\pi^-$ neutral (neutrals) 9.2	Sedlak 88	cs
mult[π^\pm] 5.6	Sedlak 88	cs	$3\pi^+ 4\pi^-$ 9.2	Sedlak 88	cs
π^0 mult[π^\pm] 5.6	Sedlak 88	cs	$\rho^0 2\pi^+ \pi^0 3\pi^-$ 4.33 - 9.2	Sedlak 88	mult
ρ^- baryonium 0	Daftari 87	-	$2\pi^+ \pi^0 3\pi^- (\pi^0\text{'s})$ 0.45 - 0.97	Sedlak 88	cs
ρ^0 mult[π^\pm] 9.1	Sedlak 88	cs, mult	$3\pi^+ \pi^0 4\pi^-$ 9.2	Sedlak 88	cs
ω mult[π^\pm] 9.1	Sedlak 88	cs, mult	$3\pi^+ 4\pi^-$ neutral (neutrals) 9.2	Sedlak 88	cs
π^- meson ⁰ ?	Bridges 86C Bridges 86D	-	$4\pi^+ 5\pi^-$ 9.2	Sedlak 88	cs
ρ^- nisson ⁰ 0	Daftari 87	-	$4\pi^+ 5\pi^-$ neutral (neutrals) 9.2	Sedlak 88	cs
K_L^+ exotic-meson 8.9	Shoemaker 88	-	\bar{p} nucleon		
$\pi^+ 2\pi^-$ 0.45 - 0.97 < 0.65 9.2	Sedlak 88 Bridges 86C Sedlak 88	cs mass, p cs	$NN(I=0)$ 1 - 3	Sapozhnikov 86	cs
$a_2(1320)^- \pi^+ \pi^-$ 0	Bridges 86D	mass, p	$NN(I=1)$ 1 - 3	Sapozhnikov 86	cs
$2\rho^0 \pi^-$ 0	Bridges 86D	mass, p	\bar{p} deuteron		
$\rho^0 \pi^0$ mult[π^\pm] 9.1	Sedlak 88	cs, mult	X 0.2 - 0.6	Sedlak 88	cs
$n \bar{\Sigma}^- K_L$ 8.9	Shoemaker 88	cs, mass	γX 0	Gorringe 85	mult, p
$\pi^+ \pi^0 2\pi^-$ 0 0.45 - 0.97 < 0.65 9.2	Daftari 87 Sedlak 88 Bridges 86C Sedlak 88	mass cs mass, p cs	$\pi^0 X$ 40	Apokin 88C	angp, asym, p
$\rho^0 \pi^+ 2\pi^-$ 0 4.33 - 9.2 ?	Bridges 86D Sedlak 88 Bridges 86D	mass, p mult -	$K_S X$ 0.45 - 0.921 < 2.9	Parkin 86 Tosello 89	angp, cs cs, mult
$\omega \pi^+ 2\pi^-$ 4.33 - 9.2	Sedlak 88	mult	ΛX 0.45 - 0.921 < 2.9	Parkin 86 Tosello 89	angp, cs cs, mult
$n \bar{\Lambda} K_L \pi^-$ 8.9	Shoemaker 88	cs, mass	$\bar{\Lambda} X$ 0 < 2.9	Tosello 89	cs, mult
$p \bar{\Sigma}^- K_L \pi^-$ 8.9	Shoemaker 88	cs, mass	$p \rho^-$ 0	Angelopoulos 88B	p
$2\pi^+ 3\pi^-$ 0 0.45 - 0.97 < 0.65 9.2	Bridges 86D Sedlak 88 Bridges 86C Sedlak 88	mass, p cs mass, p cs	$\pi^+ \pi^- X$ 0.45 - 0.921	Parkin 86	mass
$\rho^0 \pi^+ \pi^0 2\pi^-$ 4.33 - 9.2	Sedlak 88	mult	$p \pi^- X$ 0.45 - 0.921 < 0.65	Parkin 86 Liu 88 Bridges 86	mass mass, p p
$\pi^+ \pi^0 2\pi^- (\pi^0\text{'s})$ 0.45 - 0.97	Sedlak 88	cs	$p(\text{spect}) K_L X$ 8.9	Shoemaker 88	p
$p \bar{\Lambda} K_L 2\pi^-$ 8.9	Shoemaker 88	cs, mass	$p \pi^0 \pi^0$ 0	Angelopoulos 88B	p
$n \bar{\Sigma}^- K_L \pi^+ \pi^-$ 8.9	Shoemaker 88	cs, mass	$p(\text{spect}) \pi^0 \pi^-$ 0 ?	Bridges 86B Sedlak 88	angp, p cs, cs
$n \bar{\Sigma}^+ K_L 2\pi^-$ 8.9	Shoemaker 88	cs, mass	$n(\text{spect}) \pi^+ \pi^-$ 0 ?	Bridges 86B Sedlak 88	angp, p cs
$2\pi^+ \pi^0 3\pi^-$ 0.45 - 0.97	Sedlak 88	cs	$n \pi^+ \pi^-$ 0	Angelopoulos 88B	p
$p(\text{spect}) \rho^0 \pi^-$?	Sedlak 88	cs	$p(\text{spect}) \eta \pi^-$?	Sedlak 88	cs
$\bar{p} \text{ } ^4\text{He}$			$p(\text{spect}) \rho^0 \pi^-$?	Sedlak 88	cs
$n \rho^+ \pi^- + n \rho^0 \pi^0 + n \rho^- \pi^+$ 0	Angelopoulos 88B	p	$\bar{p} \text{ } ^4\text{He}$		
$p(\text{spect}) \omega \pi^-$?	Sedlak 88	cs	X 0.04 - 0.05	Balestra 89E	cs
$p(\text{spect}) f_2(1270) \pi^-$?	Sedlak 88	cs			
$p(\text{spect}) a_2(1320)^0 \pi^+ \pi^-$?	Sedlak 88	cs			
$p \pi^-$ baryonium < 0.65	Liu 88 Bridges 86	mass, p p			
$n(\text{spect}) K_S K_L$?	Sedlak 88	cs			
$p K \bar{K} X$ 0.5708	Guaraldo 89	p			
$n \pi^+ \pi^0 \pi^-$ 0	Angelopoulos 88B	p			
$p(\text{spect}) \pi^+ 2\pi^-$ < 0.65 ?	Bridges 86C Sedlak 88	mass, p cs, p			
$p(\text{spect}) \rho^0 \pi^0 \pi^-$?	Sedlak 88	cs			
$p(\text{spect}) \rho^+ 2\pi^-$?	Sedlak 88	cs			
$p(\text{spect}) \rho^- \pi^+ \pi^-$?	Sedlak 88	cs			
$p(\text{spect}) \pi^0 \pi^- (\pi^0\text{'s})$?	Sedlak 88	cs			
$p K \bar{K} \pi$ 1 - 3	Guaraldo 89B	p			
$p(\text{spect}) K \bar{K} \pi$?	Sedlak 88	p			
$2p \bar{p} \pi^-$ 1.6 - 2 2.358 - 2.784	Guaraldo 89B Guaraldo 89	p p			
$p(\text{spect}) \pi^+ \pi^0 2\pi^-$ < 0.65 ?	Bridges 86C Sedlak 88	mass, p cs, p			
$p(\text{spect}) \pi^+ 2\pi^- (\pi^0\text{'s})$?	Sedlak 88	cs			
$p 2\pi^+ 3\pi^-$ 2.358 - 2.784	Guaraldo 89	p			
$p(\text{spect}) 2\pi^+ 3\pi^-$ 0 < 0.65 ?	Bridges 86D Bridges 86C Sedlak 88	mass, p mass, p cs, p			
$p(\text{spect}) \omega \pi^+ \pi^0 2\pi^-$?	Sedlak 88	cs			
$p(\text{spect}) 2\pi^+ \pi^0 3\pi^-$?	Sedlak 88	cs, p			
$p(\text{spect}) 2\pi^+ 3\pi^- (\pi^0\text{'s})$?	Sedlak 88	cs			
$p(\text{spect}) 3\pi^+ \pi^0 4\pi^- (\pi^0\text{'s})$?	Sedlak 88	cs			
$\bar{p} \text{ } ^3\text{He}$					
annihil 0	Batusov 87C	cs			
inelastic 0.1928	Balestra 88	cs			
mult[charged] X 0.1928	Balestra 88	mult			
mult[charged] (neutrals) 0	Balestra 87B	cs			

$\bar{p} \text{ } ^4\text{He} \rightarrow X$ $\bar{p} \text{ } C \rightarrow C \bar{p}$

$\bar{p} \text{ } ^4\text{He}$	$\bar{p} \text{ } \text{Li}$	$\bar{p} \text{ } \text{Be}$
X 0.18 Sedlak 88 cs 0.2 - 0.6 Sedlak 88 cs 0.6 Balestra 87 cs 0.6077 Batusov 88 cs	charged⁺ X 40 Boos 88 a-dep, mult charged⁻ X 40 Boos 88 a-dep, mult 40 Boos 87 mult	K⁺ K⁻ X 100 Dijkstra 86 ang, dme, mass K_S φ X 100 Dijkstra 86C mass p φ X 100 Dijkstra 86C mass $\bar{p} \phi X$ 100 Dijkstra 86C mass
annihil 0 Batusov 87C cs	mult[charged⁺] X 40 Boos 88 a-dep, mult	K⁺ K⁻ π⁺ X 100 Dijkstra 86C mass
inelastic 0.201 - 0.609 Balestra 86B cs	mult[charged⁻] X 40 Boos 88 a-dep, mult	K⁺ K⁻ π⁻ X 100 Dijkstra 86C mass
charged X 0.201 - 0.609 Balestra 86B cs	p X 40 Boos 87 mult	K⁺ 2K⁻ X 100 Dijkstra 86C mass
mult[charged] (neutrals) 0 Balestra 87B cs 0.201 - 0.609 Balestra 86B mult	mult[p] X 40 Boos 87 mult	2K⁺ K⁻ X 100 Dijkstra 86C mass
2charged (neutrals) 0.6 Balestra 87 cs	grey X 40 Boos 88 a-dep, mult	K⁺ K_S K⁻ X 100 Dijkstra 86C mass
K_S X 0.6077 Batusov 89C cs, p, pt Batusov 88B cs, p, pt	mult[grey] X 40 Boos 88 a-dep, mult	p K⁺ K⁻ X 100 Dijkstra 86C mass $\bar{p} K^+ K^- X$ 100 Dijkstra 86C mass
Λ X 0.6077 Batusov 89C cs, p, pt Batusov 88B cs, p, pt	X star 40 Boos 88 a-dep, cs	$\bar{p} \text{ } ^{12}\text{C}$ X 0.18 Sedlak 88 cs 0.2 - 0.6 Sedlak 88 cs
fragm X 0.6 Balestra 87 cs	mult[p] charged⁻ X 40 Boos 87 cor, mult	π⁺ X 0.608 Mcgaughey 86 cs, p
vee X 0.6077 Batusov 89C cs, p, pt	charged⁺ X star 40 Boos 88 a-dep, mult	π⁻ X 0.608 Mcgaughey 86 cs, p
$^4\text{He } \bar{p}$ 0.6077 Batusov 88 amp, angp, cs	charged⁻ X star 40 Boos 88 a-dep, mult	p X 0.18 Garreta 84 p 0.6 Guaraldo 89B p 0.608 Garreta 85 p 0.608 Mcgaughey 86 cs, p
2K_S X 0.6077 Batusov 89C cs	mult[charged⁺] X star 40 Boos 88 a-dep, mult	$^{12}\text{C } \bar{p}$ 0.046 Sedlak 88 angp 0.3007 - 0.6084 Lichtenstadt 85 angp
Λ K_S X 0.6077 Batusov 89C cs	mult[charged⁻] X star 40 Boos 88 a-dep, mult	C \bar{p} 0.3 - 1.247 Piragino 86B angp
$^3\text{H } p \bar{p} + 2\text{deuteron } \bar{p} + \text{deuteron } p n \bar{p}$ + 2p 2n \bar{p} 0.6 Balestra 87 cs	grey X star 40 Boos 88 a-dep, mult	C \bar{p} 0.3 - 1.247 Piragino 86B angp
$^3\text{He } n \bar{p}$ 0.6 Balestra 87 cs	mult[grey] X star 40 Boos 88 a-dep, mult	$\bar{p} \text{ } ^7\text{Li}$ X 0.18 Sedlak 88 cs
3charged (neutrals) 0.6 Balestra 87 cs	p charged⁺ charged⁻ X 40 Boos 87 a-dep, mult	$\bar{p} \text{ } ^9\text{Be}$ X 0.18 Sedlak 88 cs
annihil 2charged (neutrals) 0.6 Balestra 87 cs	$\bar{p} \text{ } ^7\text{Li}$ X 0.18 Sedlak 88 cs	$\bar{p} \text{ } ^{10}\text{B}$ X 0.18 Sedlak 88 cs
annihil 3charged (neutrals) 0.6 Balestra 87 cs	$\bar{p} \text{ } ^9\text{Be}$ annihil 1.76 Kuzichev 88 cs	$\bar{p} \text{ } ^{11}\text{B}$ annihil 1.26 - 2.5 Kuzichev 89 a-dep, cs
$\bar{p} \text{ } \text{He}$ X 0.1928 - 0.3062 Balestra 85 cs 0.6462 - 1.23 Piragino 86B cs	$\bar{p} \text{ } \text{Be}$ annihil 1.26 - 2.5 Kuzichev 89 a-dep, cs	charged⁺ X 40 Boos 88 a-dep, mult
inelastic 0.6084 Balestra 84 cs	φ X 100 Dijkstra 86 mult, p, pt Dijkstra 86D cs, p	charged⁻ X 40 Boos 88 a-dep, mult 40 Boos 87 mult
mult[charged] X 0.6462 - 1.23 Piragino 86B cs	J'ψ(1S) X 125 Katsanevas 87 a-dep, cs, p, pt	mult[charged⁺] X 40 Boos 88 a-dep, mult
mult[charged] (neutrals) 0.1928 - 0.3062 Balestra 85 cs 0.1928 - 0.6077 Batusov 85C cs	p X 40 Antipov 87 p	mult[charged⁻] X 40 Boos 88 a-dep, mult
γ X 0 Tsukerman 85 p	$\bar{p} X$ 120 Bailey 85B cs, p	p X 40 Boos 87 mult
$^3\text{He } X$ 0.1928 - 0.3062 Balestra 85 cs 0.6084 Balestra 84 cs	μ⁻ μ⁺ X 125 Katsanevas 87 a-dep, mass	$\bar{n} X$ 0.59 Nakamura 85B angp, cs
$^3\text{H } X$ 0.6084 Balestra 84 cs	φ π⁺ X 100 Dijkstra 86C mass	mult[p] X 40 Boos 87 mult
vee X 0.1928 - 0.3062 Balestra 85 cs	φ π⁻ X 100 Dijkstra 86C mass	grey X 40 Boos 88 a-dep, mult
$\bar{p} \text{ } ^6\text{Li}$ p X 0.6 Garreta 85 p	K⁺ φ X 100 Dijkstra 86C mass	mult[grey] X 40 Boos 88 a-dep, mult
	K⁻ φ X 100 Dijkstra 86C mass	X star 40 Boos 88 a-dep, cs
		C \bar{p} 0.48 - 0.54 Birsa 85 asym 0.56 - 0.608 Birsa 85 asym

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\bar{p} Cu \rightarrow p X \bar{p} ^{208}Pb \rightarrow ^{208}Pb \bar{p} γ

\bar{p} Cu				\bar{p} Cd			\bar{p} Wt		
p X	40	Boos 87	mult	annihil	1.26 - 2.5	Kuzichev 89	a-dep. cs	$\mu^- \mu^+$ X	Katsanevas 87
\bar{p} X	120	Bailey 85B	cs, p	\bar{p} ^{115}In					a-dep. mass
mult[p] X	40	Boos 87	mult	X	0.18	Sedlak 88	cs	\bar{p} Au	
grey X	40	Boos 88	a-dep. mult	K^0 X	1.05	Guaraldo 89	cs, p	\bar{p} π^\pm X	Toothacker 87
mult[grey] X	40	Boos 88	a-dep. mult	Λ X	1.05	Guaraldo 89	cs, p	\bar{p} mult[π^\pm] X	Toothacker 87
X star	40	Boos 88	a-dep. cs	2charged X	200	Derado 88	a-dep. cor, mult, p	p \bar{p} X	Toothacker 87
Cu \bar{p}	1.252	Piragino 86B	angp	K^+ \bar{K}^0 X	1.05	Guaraldo 89	cs, p	\bar{p} ^{197}Au	
$\mu^- \mu^+$ X	125	Katsanevas 87	a-dep. mass	K^0 K^- X	1.05	Guaraldo 89	cs, p	X	0.18
mult[p] charged $^-$ X	40	Boos 87	cor, mult	K^0 \bar{K}^0 X	1.05	Guaraldo 89	cs, p	(blacks) mult[grey] mult[shower]	
charged $^+$ X star	40	Boos 88	a-dep. mult	Λ K^+ X	1.05	Guaraldo 89	cs, p	(neutrals)	100
charged $^-$ X star	40	Boos 88	a-dep. mult	Λ K^0 X	1.05	Guaraldo 89	cs, p	100	Biswas 86
mult[charged $^+$] X star	40	Boos 88	a-dep. mult	mult[p] 2charged X	200	Derado 88	a-dep. cor, mult, p	\bar{p} Pb	
mult[charged $^-$] X star	40	Boos 88	a-dep. mult	\bar{p} ^{138}Ba				X	0.5141 - 0.6331
grey X star	40	Boos 88	a-dep. mult	γ X	0.2 - 0.3	Poth 85	p	annihil	1.26 - 2.5
mult[grey] X star	40	Boos 88	a-dep. mult	\bar{p} Ta				charged $^+$ X	40
p charged $^+$ charged $^-$ X	40	Boos 87	a-dep. mult	X	12.2	Andreev 87		charged $^-$ X	40
\bar{p} ^{70}Ge				charged X	12.2	Andreev 87	mult	40	Boos 88
γ X	0.2 - 0.3	Poth 85	p	charged $^-$ X	12.2	Andreev 87	mult	40	Boos 87
\bar{p} Yt				mult[charged] (neutrals)	4	Miyano 88	mult	40	Boos 88
π^+ X	0.608	Mcgaughey 86	cs, p	K_S X	4	Miyano 88	angp, p	mult[charged $^+$] X	40
π^- X	0.608	Mcgaughey 86	cs, p	Λ X	4	Tosello 89 Miyano 88	ang, cs, p, pt	40	Boos 88
p X	0.608	Mcgaughey 86	cs, p	$\bar{\Lambda}$ X	4	Tosello 89 Miyano 88	ang, cs, p, pol, pt	40	Boos 88
\bar{p} Mo				p mult[π^+] X	6.066	Guaraldo 89	cor, mult	40	Boos 87
fragm X	0	Guaraldo 89	cs	Λ $\bar{\Lambda}$ X	4	Miyano 88	cs	40	Boos 88
\bar{p} Ag				2 Λ X	4	Miyano 88	cs	40	Boos 88
p X	100	Toothacker 87	p	K_S mult[charged] (neutrals)	4	Miyano 88	mult	40	Boos 88
\bar{p} X	100	Toothacker 87	p	Λ mult[charged] (neutrals)	4	Miyano 88	mult	40	Boos 88
\bar{p} π^\pm X	100	Toothacker 87	mult, p	\bar{p} Wt				40	Boos 87
\bar{p} mult[π^\pm] X	100	Toothacker 87	p	J/ ψ (1S) X	125	Katsanevas 87	a-dep. cs, p, pt	0.18	Sedlak 88
p \bar{p} X	100	Toothacker 87	mult	\bar{p} X	120	Bailey 85B	cs, p	γ X	0.2 - 0.3
\bar{p} ^{108}Ag				$\mu^- \mu^+$ X	125	Anassontzis 87	ang, angp, mass, p, pt	^{208}Pb \bar{p} γ	0
(blacks) mult[grey] mult[shower]									Kreissl 87
(neutrals)	100	Biswas 86	cs						
\bar{p} ^{112}Cd									
annihil	1.76	Kuzichev 88	cs						

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\bar{p} Bi \rightarrow hypernucleus X $p p \rightarrow$ mult[charged] (neutrals)

\bar{p} Bi	\bar{p} nucleus	$p p$
hypernucleus X 0.2 Berrada 85 cs	Λ X 4 - 400 Tosello 89 cs, mult Panagiotou 89 a-dep, p, pol, pt	charged X (10 - 100) Ward 86B cs Allday 88 pt 205 Baldin 85B col, p 250 Aivazyan 89 mult, p Adamus 88B
$\bar{p}^{209}\text{Bi}$	$\bar{\Lambda}$ X < 4 Tosello 89 cs, mult	
hypernucleus X 0.1 Campagnolle 89 cs Bocquet 87 cs	mult[p] X 40 Boos 87 mult	
p X 0.18 Garreta 84 p	grey X 40 Boos 88 a-dep, mult	(23 - 63) Fischer 88 p, pt 360 Bailly 88B col, p, pt (31 - 62) Breakstone 86F mult, pt Breakstone 86G mult, p, pt 1440 Hofmann 87B p
$\bar{p}^{238}\text{U}$	mult[black] X 5 Shivpuri 86 mult	charged⁺ X 200 Allday 88 pt 200 Aivazyan 89 mult, p 200 Adamus 88G mult, p, pt (23 - 62.5) Camilleri 87 cs, mult, p, pt 491.5 Bell 85B mult, p (31 - 62) Breakstone 86D angp, cs, p, pt
hypernucleus X 0.1 Campagnolle 89 cs 0.1 - 0.2 Bocquet 85	mult[grey] X 40 Boos 88 a-dep, mult	
π^+ X 0.608 Mcgaughey 86 cs, p	mult[shower] X 5 Shivpuri 86 mult 200 Fredriksson 87 mult	
π^- X 0.608 Mcgaughey 86 cs, p	shower X 5 Shivpuri 86 ang, p 200 Fredriksson 87 mult	
p X 0.608 Mcgaughey 86 cs, p	X star 40 Boos 88 a-dep, cs	
\bar{p} U	nucleus \bar{p} 185 Akhshirin 89 angp, asym, pol	charged⁻ X 200 Klar 84 mult, p, pt Brick 90 cor, mult, p Allday 88 pt 250 Aivazyan 89 mult, p Adamus 88G mult, p, pt Ajnenko 87 p, pt Adamus 86 mult, p Camilleri 87 cs, mult, p, pt (23 - 63) Fischer 88 p, pt 491.5 Bell 85B mult, p (31 - 62) Breakstone 86D angp, cs, p, pt
mult[frag] 0 Guaraldo 89B cs	p charged⁻ X 40 - 200 Fredriksson 87 cor, mult	
hypernucleus X 0.2 Berrada 85 cs	mult[p] charged⁻ X 40 Boos 87 cor, mult	
π^+ X 0.607 Guaraldo 89 angp	charged⁺ X star 40 Boos 88 a-dep, mult	
p X 0.607 Guaraldo 89 angp	charged⁻ X star 40 Boos 88 a-dep, mult	
\bar{p} X 120 Bailey 85B cs, p	mult[charged⁺] X star 40 Boos 88 a-dep, mult	
n X 0 Guaraldo 89B p Angelopoulos 88 p	mult[charged⁻] X star 40 Boos 88 a-dep, mult	
\bar{p} nucleus	grey X star 40 Boos 88 a-dep, mult	mult[charged] X 19 - 303 Tannenbaum 89 mult (10 - 100) Ward 86B cs 200 Dengler 86C angp, mult, p 205 Baldin 86 col 250 Adamus 88G mult (23 - 62.5) Camilleri 87 cs, mult 300 - 400 Tannenbaum 89 ang, angp, et, p 360 Aguilarenit 85F p (30 - 63) Tannenbaum 89 col, et, p 800 Ammar 88B - 40 Ammar 87 Tannenbaum 89 ang, et, p 1496 Tannenbaum 89 mult, p (62) Fabbri 88 angp, mult, p (540) Tannenbaum 89 mult, p
X 0.6084 Piragino 86B cs	mult[charged⁺] X 40 Boos 88 a-dep, mult	
inelastic 5 - 300 Fredriksson 87 a-dep, cs 13.3 Prokoshkin 87C cs	grey X star 40 Boos 88 a-dep, mult	
charged X < 0.6 Balestra 85B cs, mult	mult[black] mult[grey] X 5 Shivpuri 86 mult	
charged⁺ X 40 Boos 88 a-dep, mult 200 Fredriksson 87 p	mult[black] mult[shower] X 5 Shivpuri 86 mult	
charged⁻ X 40 Boos 88 a-dep, mult Boos 87 mult 40 - 200 Fredriksson 87 mult 200 Fredriksson 87 p	mult[grey] X star 40 Boos 88 a-dep, mult	
mult[charged] X 0.3 - 0.5 Guaraldo 89 mult < 2.142 Piragino 86B cs	p charged⁺ charged⁻ X 40 Boos 87 a-dep, mult	
mult[charged⁺] X 40 Boos 88 a-dep, mult	$p p$	
mult[charged⁻] X 40 Boos 88 a-dep, mult	X 0.2 - 1 Yokosawa 85 - Yokosawa 85C - 0.304 - 2.48 Madigan 85 cs 0.9959 - 3.204 Perrot 86 asym 1.463 Yuan 86 asym (5 - 540) Block 84 amp, angp, cs 32.1 Bogolyubsky 87E cs (23 - 62.5) Camilleri 87 cs (30.6 - 62.7) Sedlak 88 cs Carboni 85 cs Gomez 86 a-dep, cs (63) Akesson 87 et (433.2 - 16777) Linsley 84 cs	mult[charged⁻] X 200 Dengler 86C angp, mult, p
mult[charged] (neutrals) 0 - 0.5 Balestra 86B cs, mult	dibaryon ? Bertini 88 -	mult[charged] (neutrals) 2 - 400 Boos 86 cs, mult 32.1 Bogolyubsky 87E mult 147 Brick 86 p 200 Allday 88 cs, mult 250 Naudet 86 cor, p Ajnenko 89D col, p Ajnenko 87 p, pt Ahn 86 mult Bhattacharje 90 mult Miettinen 88 mult a-dep, angp, col, et, mult, p < 500 Bystricky 87 cs (31 - 62) Breakstone 88B angp, mult, p 800 Ammar 86B cs, mult Gomez 86 col, et Fabbri 88 angp, mult, p
K_S X < 4 Guaraldo 89 angp, cs, p Tosello 89 cs, mult	inelastic 32.1 Bogolyubsky 87E cs < 10 ³ Bystricky 87 p 1496 Ward 86B cs	
p X 0.18 Garreta 84 p 40 Boos 87 mult Fredriksson 87 a-dep, mult	charged X 32.1 Bravina 89 mult, p	
\bar{p} X 120 Fredriksson 87 p		
Λ X < 4 Guaraldo 89 angp, cs, p		

$p p \rightarrow \text{mult}[\text{charged}] (\text{neutrals})$ $p p \rightarrow K_S X$

pp			pp			pp		
mult[charged] (neutrals)			$\pi^- X$			$D^- X$		
(63)	Akesson 88D	pt	4.2	Bekmirzaev 87C		800	Ammar 88B	cs, p, pt
	Akesson 87E		4.2 - 10	Bekmirzaev 89	angp, p, pt		Ammar 87	cs
	Akesson 85E	angp, col, pt	13.3 - 18.5	Saroff 90	mult, p, pt	$D_S^- X$		
2charged (neutrals)			32.1	Bogolyubsky 87E	mult	400	Aguiarbenit 88B	angp, cs, p, pt
511.2	Angelis 86	mult, p	(11.29 - 61.28)	Prokoshkin 87C	p			
γX			70	Abramov 84C	pt	$D_S^+ X$		
280	Bonesini 88B	p, pt	(23 - 62.5)	Camillieri 87	pt	400	Aguiarbenit 88B	angp, cs, p, pt
(23 - 62.5)	Richard 87	p, pt	360	Bailey 87B	cs, p			
300	Camillieri 87	cs	400 - 800	Bailey 86D	p	$D^*(2010)^0 X$		
	Alimov 89B	mult	511.2	Brown 86	angp	400	Aguiarbenit 88B	angp, cs, p, pt
	Demarzo 87	p, pt	(31 - 62)	Jaffe 89	pt		Aguiarbenit 87C	cs
	Richard 87	p, pt	(62)	Breakstone 85D	cs	$\bar{D}^*(2010)^0 X$		
	Ferbel 86	angp, pt	(63)	Breakstone 86D	cs	400	Aguiarbenit 88B	angp, cs, p, pt
(24 - 63)	Richard 87	p, pt	ηX	Breakstone 87	cs, p, pt		Aguiarbenit 87C	cs
(24 - 630)	Rutherford 85	p, pt	280	Breakstone 85B	cs		Aguiarbenit 87C	angp, cs, p, pt
1496	Lancon 86B	p, pt	(23 - 62.5)	Akesson 85C	pt	$D^*(2010)^+ X$		
	Akesson 85G	p, pt	313.7	Bonesini 89	cs, p, pt	400	Aguiarbenit 88B	angp, cs, p, pt
(63)	Anassontzis 90	pt	313.7	Richard 87	p, pt		Aguiarbenit 87C	cs
	Angelis 90	pt	(31 - 62)	Camillieri 87	p, pt	$D^*(2010)^- X$		
	Akesson 87C	pt	1496	Antille 87	cs, pt	400	Aguiarbenit 88B	angp, cs, p, pt
	Akesson 86E	pt	(63)	Benayoun 87	cs, pt		Aguiarbenit 87C	cs
$e^+ X$			$\rho^0 X$	Benayoun 87	pt		Aguiarbenit 88B	angp, cs, p, pt
(53 - 63)	Richard 87	pt	24	Batyunya 87J	angp, pol	$K^+ X$		
(63)	Akesson 87B	mult, p, pt	ωX			3.099	Frascaria 89	mass
	Akesson 85C	pt	(31 - 62)	Benayoun 87	cs, pt	32.1	Frascaria 87	mass
$\pi^0 X$			$\eta' X$	Benayoun 87	cs, pt	70	Bogolyubsky 87E	mult
32.1	Bogolyubsky 87E	mult	(31 - 62)	Benayoun 87	cs, pt	(23 - 62)	Abramov 84C	p
185	Bonner 88B	angp, p	ϕX			(23 - 62.5)	Hofmann 87B	pt
250	Adamus 86C	cs, mult, p, pt	120	Dijkstra 86D	-	400	Camillieri 87	pt
280	Bonesini 88B	p, pt	527.8 - 1031	Akesson 85F	cs	400 - 800	Brown 86	a-dep, angp, pt
(23 - 62.5)	Richard 87	p, pt	$\text{mult}[\pi^0] X$	Azimov 85E	mult	511.2	Jaffe 89	a-dep, angp, pt
(23.5 - 62.4)	Tannenbaum 89	angp, pt	300			(62)	Breakstone 85D	pt
300	Demarzo 87B	p, pt	$D^0 X$	Aguiarbenit 88	cs, p		Breakstone 85B	cs
	Richard 87	p, pt	400	Aguiarbenit 88B	cs, p	$K^- X$	Breakstone 85E	pt
	Artykov 86	cs, mult		Aguiarbenit 87B	angp, cs, p, pt	32.1	Bogolyubsky 87E	mult
	Ferbel 86	angp, pt		Aguiarbenit 87B	angp, cs, p, pt	(11.29 - 61.28)	Prokoshkin 87C	p
	Azimov 85E	cs		Aguiarbenit 87C	angp, cs, p, pt	70	Abramov 84C	p
(24 - 63)	Richard 87	p, pt		Aguiarbenit 87C	cs, p, pt	(23 - 62.5)	Camillieri 87	pt
(24 - 630)	Rutherford 85	p, pt		Aguiarbenit 87E	cs, p, pt	360	Bailey 87B	cs, p
313.7	Antille 87	cs, pt		Aguiarbenit 87F	-	400	Brown 86	angp
360	Bailey 86B	pt		Aguiarbenit 87F	-	400 - 800	Jaffe 89	pt
511.2	Angelis 87	angp, pt		Ammar 88B	cs, p, pt	511.2	Breakstone 85D	cs
(31 - 62)	Benayoun 87	cs, pt		Ammar 87	cs	(62)	Breakstone 85B	cs
(31 - 63)	Richard 87	p, pt	$\bar{D}^0 X$			$K^0 X$	Breakstone 85E	pt
1496	Lancon 86B	p, pt	400	Aguiarbenit 88	cs, p	32.1	Bogolyubsky 87E	mult
	Akesson 85G	p, pt		Aguiarbenit 88B	angp, cs, p, pt	$\bar{K}^0 X$		
(63)	Anassontzis 90	pt		Aguiarbenit 87B	angp, cs, p, pt	32.1	Bogolyubsky 87E	mult
	Angelis 90	pt		Aguiarbenit 87C	angp, cs, p, pt	$K^*(892)^+ X$		
	Akesson 86C	pt		Aguiarbenit 87E	cs, p, pt	32.1	Bogolyubsky 88F	cs
	Akesson 86E	pt		Aguiarbenit 87E	cs, p, pt	360	Bailey 86B	pt
$\pi^\pm X$				Ammar 88B	cs, p, pt	$K^*(892)^- X$		
4.2 - 10	Bekmirzaev 89	mult		Ammar 87	cs	?	Aziz 85C	cs, p, pt
801.3	Jaffe 88	angp	$D^+ X$			$K^*(892)^- X$	Chliapnikov 90	cs
1496	Ward 86B	p	400	Aguiarbenit 88	cs, p	32.1	Bogolyubsky 88F	pt
(53 - 63)	Richard 87	pt		Aguiarbenit 88B	cs, p	360	Bailey 86B	cs
$\pi^+ X$				Aguiarbenit 87B	angp, cs, p, pt	$K_S^*(1430)^+ X$		
13.3 - 18.5	Saroff 90	angp, p, pt		Aguiarbenit 87C	angp, cs, p, pt	360	Aziz 85C	cs
32.1	Bogolyubsky 87E	mult		Aguiarbenit 87C	angp, cs, p, pt	$K_S^*(1430)^- X$		
70	Abramov 84C	pt		Aguiarbenit 87E	cs, p, pt	360	Aziz 85C	cs
(23 - 62)	Hofmann 87B	p		Ammar 88B	cs, p, pt	$K_S^*(2045)^0 X$		
(23 - 62.5)	Camillieri 87	pt		Ammar 87	cs	400	Torres 85	p
360	Bailey 86D	p		Aguiarbenit 88	cs, p	$K^\pm X$		
400	Brown 86	a-dep, angp, pt		Aguiarbenit 88B	angp, cs, p, pt	1496	Ward 86B	p
400 - 800	Jaffe 89	pt		Aguiarbenit 87B	angp, cs, p, pt	$K_S X$		
511.2	Breakstone 85D	cs		Aguiarbenit 87E	cs, p, pt	(5.474 - 96.87)	Sedlak 88	cs
(31 - 62)	Breakstone 86D	cs		Aguiarbenit 87E	cs, p, pt	32.1	Bogolyubsky 88F	cs
(62)	Breakstone 87	angp, cs, p, pt	$D^- X$			205	Baldin 85B	cs, p, pt
	Breakstone 85B	cs	400	Aguiarbenit 88	cs, p			col, p
	Breakstone 85E	cs		Aguiarbenit 88B	angp, cs, p, pt			
(63)	Akesson 85E	pt		Aguiarbenit 87B	angp, cs, p, pt			
	Akesson 85C	pt		Aguiarbenit 87E	cs, p, pt			
$\pi^- X$				Aguiarbenit 87F	cs			
1.45	Willis 89	angp, mass, pol		Aguiarbenit 87F	cs			
1.696	Abaev 87	angp						

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

pp		pp		pp	
K_S X		A X		mult[hadron] X	
360	Baily 87F ang, angp, asym, p, pt	32.1	Bogolyubsky 88F cs, p, pt	200	Tannenbaum 89 et, p
	Baily 86B pt		Bogolyubsky 87E mult	205	Baldin 86B col
	Aziz 85C cs	176	Gourlay 86 pol	(24 - 540)	Tannenbaum 89 et, p
	Asai 84	205	Baldin 85B col, p	360	Baily 86B pt
	angp, cs, mult, p, pt	(23 - 62.5)	Camilleri 87	800	Tannenbaum 89 et, p
1496	Ward 86B p			mult[jet] X	
?	Chliapnikov 90 cs	360	Baily 86B pt	205	Baldin 86 col
meson⁰ X			Aziz 85B p	(62)	Breakstone 89
(63)	Angelis 90 pt	400	Asai 84	mult[neutral] X	
D_S[±] X		504.6	angp, asym, cs, mult, p, pt	511.2	Tannenbaum 89 et, p
200	Becker 87 -	(31 - 62)	Yokosawa 85C	1479	Angelis 85 p, pt
p X			Chauvat 85 asym, pol	(63)	Tannenbaum 89 et, p
4.2 - 10	Bekmirzaev 89 mult		Panagiotou 89 p, pol, pt	shower X	
13.3 - 18.5	Saroff 90 asym, p, pt		Smith 87 angp, p, pol	200	Brick 89 mult
22.4	Batyunya 89 cs, p	Λ X		2p	
32.1	Bogolyubsky 88F cs	1.5 - 300	Panagiotou 89	0.0302 - 1.453	Yokosawa 85 -
	Bogolyubsky 87E mult		p, pol, pt	0.045	Kistryn 87 cs
70	Abramov 86 a-dep, pt	32.1	Bogolyubsky 88F cs	0.1228 - 1.505	Vancoers 85 amp
	Abramov 84C pt	(23 - 62.5)	Camilleri 87	0.1374 - 1.464	Bystricky 86D amp, angp, cs
200	Brick 89 mult	360	Asai 84	0.2461	Vovchenko 86 pwa
	Abe 88 p	(31 - 62)	angp, cs, mult, p, pt	< 0.3104	Vovchenko 85 pwa
281 - 1078	Ward 86B p		Panagiotou 89 p, pol, pt	0.4 - 0.579	Donoghue 84D -
(23 - 62.5)	Camilleri 87 pt			0.447 - 0.597	Onel 89 pol
400	Brown 86 angp	A X + Λ X		0.5 - 0.8	Hausammann 89 amp
400 - 800	Jaffe 89	32.1	Bogolyubsky 88F p, pt	0.6126	Bystricky 85D pol
511.2	Breakstone 85D cs	Σ⁺ X			Davis 85 angp, asym, pol
800	Gomez 86B -	32.1	Bogolyubsky 87E mult	0.655 - 1.017	Garcon 87B asym
(62)	Breakstone 88 p, pt	405	Okusawa 88 cs, p	0.7 - 1.3	Lehar 86 amp, pwa
	Breakstone 87 cs, p, pt	Σ⁰ X		0.83 - 1.1	Bystricky 85C pol
	Breakstone 85B cs	32.1	Bogolyubsky 88F cs	0.88 - 2.7	Lehar 87B angp, pol
π X			Bogolyubsky 87E mult		Perrot 87 angp, asym, pol
(11.29 - 61.28)	Prokoshkin 87C p	Σ⁻ X		0.926 - 1.696	Shklyarevsky 86 pwa
70	Abramov 86 a-dep, pt	32.1	Bogolyubsky 87E mult	1 - 3	Shimizu 89 pol
	Abramov 84C pt	405	Okusawa 88 cs, p	1 - 13	Soffer 85 amp, angp, pol
(23 - 62.5)	Camilleri 87 pt	Σ(1385 P₁₃)⁺ X		1.01 - 1.168	Arcole 86 amp, asym, pol
360	Baily 87B cs, p	32.1	Bogolyubsky 88F cs	1.09 - 1.921	Garçon 86 -
400	Brown 86 angp	360	Baily 86B pt	< 1.1	Arndt 87 amp
400 - 800	Jaffe 89 pt		Aziz 85C cs, p, pt	1.18 - 2.47	Yokosawa 85 -
511.2	Breakstone 85D cs	Σ(1385 P₁₃)⁻ X		1.279 - 1.687	Dobrovolsky 88 angp
(62)	Breakstone 87 cs, cs, p, pt, pt	32.1	Bogolyubsky 88F cs	1.282 - 1.463	Gazaly 87 angp, pol
	Breakstone 85B cs	360	Baily 86B pt		Pauletta 87 asym
n X			Aziz 85C cs, p, pt	1.331 - 1.639	Tanaka 87 asym, p, pol
1.696	Baturin 87 a-dep, angp	hyperon X		1.366 - 1.804	Vovchenko 86B pol
4.2	Bekmirzaev 87B angp, mult, p	< 24	Bystricky 87 -	1.373 - 1.696	Bystricky 85B asym
	Bekmirzaev 89 mult	deuteron X		1.463	Bystricky 85 pol
4.2 - 10	Bekmirzaev 87 angp, mult, p	70	Abramov 86 a-dep, pt	1.463 - 1.662	Barlett 85 angp, pol
10	Bekmirzaev 87 angp, mult, p	deuteron X			Vovchenko 89B p, pol, pwa
	Bogolyubsky 87E mult	70	Abramov 86 a-dep, pt	1.504 - 1.69	Borisov 86 angp, p, pol
32.1	Azimov 85F angp, mult, p	anomalous X		1.504 - 2.991	Lac 88 asym
300		147	Fuess 87 -	1.504 - 3.511	Lac 89C angp, p, pol
Δ(1232 P₃₃)⁺⁺ X		360	Aguliarbenit 85F -	1.511 - 3.515	Lac 89D angp, p, pol
(23 - 62.5)	Camilleri 87 cs, p, pol, pt	hadron X			Lac 89 angp, pol
405	Okusawa 88 cs, p	32.1	Bogolyubsky 87E mult		Lac 89B angp, pol
Δ(1232 P₃₃)⁻⁻ X		527.8	Akesson 89 et	1.522 - 1.569	Vovchenko 89 angp, pol
(23 - 62.5)	Camilleri 87 cs, p, pol, pt	hadron⁺ X		1.55 - 3.2	Fontaine 89 angp, p, pol
		360	Baily 86B pt	1.557 - 3.515	Lehar 8; asym, p, pol
Λ_c[±] X		400	Brown 86 a-dep, angp, pt	1.639	Perrot 88 asym, pol
400	Klein 89C -	400 - 800	Jaffe 89 a-dep, angp, pt	2.75 - 3.48	Bazhanov 88 asym, pol
	Aguliarbenit 88B angp, cs, p, pt	hadron⁻ X		2.75 - 5	Bazhanov 88B pol, pwa
	Aguliarbenit 87 cs, p	360	Baily 86B pt		Chuvilo 86 cs
	Aguliarbenit 87H cs, p	400	Brown 86 angp	2.75 - 5	Matsuda 86 pwa
(63)	Chauvat 87 cs, p, pol, pt	400 - 800	Jaffe 89 pt	6 - 11.75	Auer 85 amp, angp, pol
Λ_c⁻ X		jet X		6 - 150	Yokosawa 85C -
400	Aguliarbenit 88B angp, cs, p, pt	200	Tannenbaum 89 angp, p, pt	9.9 - 100	Prokoshkin 87C cs
	Aguliarbenit 87 cs, p	200 - 400	Arenton 85B angp, col, et, pt	11.75	Bogolyubsky 86F angp, cs
	Aguliarbenit 87H -	205	Baldin 88B ang, p	(5 - 62)	Auer 86 asym
A X		400	Baldin 85B col, p	13 - 22	Block 84 amp, angp, cs
1.5 - 300	Panagiotou 89 p, pol, pt	800	Nelson 87 col, cor, pt	13.3 - 18.5	Court 86 asym, pol
13.3 - 18.5	Bonner 87 p, pol, pt	mult[hadron] X		18.5	Khiari 89 angp, pol
	asym, p, pol, pt	5.7 - 205	Stewart 90 a-dep, angp, col, pt	24 - 28	Crabb 88 asym, pol
			Baldin 87 col, p	28	Soffer 85 angp, pol, pt
				50	Cameron 85B angp, pol, pt
					Raymond 85 pol, pt
					Asad 85 angp

p p → 2p

p p → p̄ γ X

p p		P P		P P	
2p		2charged X		D⁺ D⁰ X + D⁰ D⁻ X	
150 - 300	Soffer 85 angp, pol	200	Brick 90 cor, mult, p	400	Aguliarbenit 87C cs
185	Akchurin 89		Derado 88		
	angp, asym, pol	(30.4 - 62.2)	8-dep. cor, mult, p	D⁺ D⁻ X	
250	Grassley 82 angp, cs	(53 - 63)	Bell 85C cor	400	Aguliarbenit 88B
	Adamus 87D angp, cs	(62)	Kvatadze 88 angp, cor, p		cor, cs, mass, p, pt
(23 - 62.5)	Camilleri 87	(62)	Breakstone 86B p, pt		Aguliarbenit 87C
	amp, ang, angp, cs	2charged (neutrals) inelastic		K⁺ γ X	
(23.5 - 62.5)	Amos 85 angp, cs	< 500	Bystricky 87 cs	(63)	Akesson 86E p, pt
313.7	Breedon 89 angp	γ charged X		K⁻ γ X	
360	Bailly 88C angp, cs	(63)	Angelis 90 angp	(63)	Akesson 86E p, pt
(31 - 62)	Breakstone 85C angp	γ charged⁺ X	Angelis 90 angp	K⁺ charged X	
1496	Breakstone 85 angp	(63)	Akesson 86E angp, p, pt	527.8 - 1031	Akesson 85F mult
	Erhan 85 angp, cs	γ charged⁻ X		K⁻ charged X	
deuteron π⁺		(63)	Angelis 90 angp	527.8 - 1031	Akesson 85F mult
0.7942 - 1.475	Hiroshige 84C -	2γ X	Angelis 90 angp	K⁺ π⁰ X	
0.9303 - 1.463	Blankleider 84 -	300		(63)	Akesson 86E p, pt
0.95 - 2.5	Yokosawa 85 -	(63)	Demarzo 87B mass	K⁻ π⁰ X	
0.9543 - 1.023	Falk 83 asym, p	e⁻ e⁺ X	Akesson 86D mass, p	(63)	Akesson 86E p, pt
1.09 - 1.463	Glass 85B pol	(63)	Richard 87 mass, p, pt	K⁺ π⁺ X	
1.18	Yokosawa 85C -	π⁰ charged X		70	Abramov 84 p, pt
1.373 - 3.099	Bertini 88B angp	(62.4)	Tannenbaum 89 ang, cor, pt	(62)	Smith 86B p, pt
1.696 - 3.099	Yokosawa 85 -	(63)	Akesson 86E p, pt	K⁻ π⁺ X	
1.921 - 3.099	Bertini 88 asym	π⁺ charged X	Akesson 85F mult	70	Abramov 84 p, pt
	Bertini 85 asym	527.8 - 1031	Breakstone 86E angp, p	(62)	Smith 86B p, pt
1.921 - 3.204	Yokosawa 85C -	π⁺ charged⁺ X		70	Abramov 84 p, pt
< 2	Bystricky 87 cs	(62)	Breakstone 86E angp, p	(62)	Smith 86B p, pt
2.07 - 12.3	Chuvilo 86 -	π⁺ charged⁻ X		70	Abramov 84 p, pt
		(62)	Breakstone 86E angp, p	(62)	Smith 86B p, pt
n Δ(1232 P₃₃)⁺⁺		π⁻ charged X		K[*](892) ϕ X	
1.18 - 1.98	Wicklund 87 angp, asym, cs, dme, pwa	527.8 - 1031	Akesson 85F mult	400	Torres 85 mass
3 - 12	Wicklund 85 asym, dme, p	(62)	Rutherford 85 mass, p, pt	K⁺ K⁻ X	
		μ⁻ μ⁺ X	Rutherford 85 mass	70	Abramov 84 p, pt
dibaryon π⁻		(19 - 63)	mass, p, pt	527.8 - 1031	Akesson 85F p, pt
1.696	Abaev 87 cs	225	Rutherford 85 mass	(62)	Smith 86B p, pt
AN(2130³S₁)⁺ K⁺		2π⁺ X		2K⁺ X	
3.099	Frascaria 89 -	70	Abramov 84 p, pt	400	Abramov 84 p, pt
dibaryon(S = -1) K⁺		360	Bailly 88E p, pt	70	Brown 86 p, mass
3.099	Frascaria 87 angp, cs		Bailly 87F p, pt	527.8 - 1031	Akesson 85F cs
DD < 2π⁺ π⁻ (neutrals) > p			Bailly 87F ang, angp, asym, p, pt	(62)	Smith 86B p, pt
360	Asai 89C mass, p, pt		Bailly 86D angp, asym, p, pt	(63)	Akesson 85B cor
DD < K_S X > p			Brown 86 mass	2K⁻ X	
360	Asai 84 p		Akesson 86F cor, pt	527.8 - 1031	Akesson 85F cs
DD < Λ K⁺ ϕ > p			Smith 86B p, pt	(62)	Smith 86B p, pt
(63)	Smith 85D ang, cs, mass			(63)	Akesson 85B
DD < Λ X > p				K_S π⁺ X	
360	Asai 84 p			360	Aziz 88 mass
DD < Λ̄ X > p				K_S π⁻ X	
360	Asai 84 p			360	Aziz 88 mass
DD < n 2π⁺ π⁻ > p				meson⁰ charged X	
360	Asai 89C mass, p, pt			(63)	Angelis 90 angp
DD < p 2π⁺ 2π⁻ > p				meson⁰ charged⁺ X	
(62)	Smith 85B ang, mass, p			(63)	Angelis 90 angp
DD < p Λ̄ X > p				meson⁰ charged⁻ X	
(63)	Smith 85D ang, cs, mass			(63)	Angelis 90 angp
DD < p π⁺ 2π⁰ π⁻ > p				K K X	
360	Asai 89C ang, mass, p, pt			32.1	Bogolyubsky 88F cs
DD < p π⁺ π⁻ > p				360	Aziz 88 ang, cs, mass, p, pt
360	Asai 89C ang, mass, p, pt			2K_S X	
DD < p π⁺ π⁰ π⁻ > p				32.1	Bogolyubsky 88F cs
360	Asai 89C ang, mass, p, pt			360	Aziz 88 ang, cs, mass, p, pt
DD < X > p				charmed-meson charmed-meson X	
(62)	Breakstone 88 p, pt			400	Aguliarbenit 87C cs
2jet				p γ X	
(63)	Akesson 85E ang, mass, p, pt			(63)	Akesson 86E p, pt
charged⁺ charged⁻ X				p̄ γ X	
399.1	Ahn 87 angp, p			(63)	Akesson 86E p, pt

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p p \rightarrow p \pi^0 X$ $p p \rightarrow 2p f_1(1285)$

$p p$		$p p$		$p p$			
$p \pi^0 X$ (63)	Akesson 86E	p, pt		2jet X	200 - 400	Arenton 85B	ang, col, et, pt
$\bar{p} \pi^0 X$ (63)	Akesson 86E	p, pt			400	Neison 87	col, cor, pt
$p \pi^+ X$ 69	Boos 88C	p, pt			800	Arenton 85	pt
70	Abramov 84	p, pt			(63)	Stewart 90	a-dep, angp, col, et
(62)	Breakstone 87	mass, pt				Akesson 87	et
	Smith 86B	p, pt		2p (neutrals)	3.88	Nagae 87	angp, mass
$p \pi^- X$ 69	Boos 88C	p, pt		γ mult[charged] (neutrals)	(63)	Akesson 88D	cs, pt
70	Abramov 84	p, pt		π^+ mult[charged] (neutrals)	(62)	Breakstone 85E	ang, mult
176	Gourlay 86	p, mass		K^+ mult[charged] (neutrals)	(62)	Breakstone 85E	ang, mult
(62)	Smith 86B	p, pt		K^- mult[charged] (neutrals)	(62)	Breakstone 85E	ang, mult
$\bar{p} \pi^+ X$ 70	Abramov 84	p, pt		K_S^0 mult[charged] (neutrals)	32.1	Bogolyubsky 88F	cs, mult
176	Gourlay 86	p, mass			360	Asai 84	cs, mult
(62)	Smith 86B	p, pt		p mult[charged] (neutrals)	22.4	Batyunya 89	cs, p
$\bar{p} \pi^- X$ 70	Abramov 84	p, pt		Λ mult[charged] (neutrals)	32.1	Bogolyubsky 88F	cs, mult
(62)	Smith 86B	p, pt		$\bar{\Lambda}$ mult[charged] (neutrals)	32.1	Bogolyubsky 88F	cs, mult
$\Lambda \pi^+ X$ 360	Bailly 87F	ang, angp, asym, p, pt		$\bar{\Lambda}$ mult[charged] (neutrals)	32.1	Bogolyubsky 88F	cs, mult
(62)	Smith 86B	p, pt		Λ mult[charged] (neutrals)	360	Asai 84	cs, mult
$\Lambda \pi^- X$ 360	Bailly 87F	ang, angp, asym, p, pt		$\bar{\Lambda}$ mult[charged] (neutrals)	360	Asai 84	cs, mult
(62)	Smith 86B	p, pt		charm mult[charged] (neutrals)	400	Aguliarbenit 88C	col, mult, pt
$p K^+ X$ 70	Abramov 84	p, pt		mult[shower] mult[charged] (neutrals)	200 - 400	Boos 88B	ang, angp, cor, mult
(62)	Smith 86B	p, pt		$2p \gamma$	0.6444 - 0.7771	Fearing 86	angp
$p K^- X$ 70	Abramov 84	p, pt			0.7771	Kitching 86	angp
(62)	Smith 86B	p, pt		$2p \pi^0$	0.6 - 0.9	Andreev 88B	angp, cs, mass, p
$\bar{p} K^+ X$ 70	Abramov 84	p, pt			1 - 6	Yokosawa 85	cs, mass, p
(62)	Smith 86B	p, pt			1.278 - 1.463	Riley 87	p, pol
$\bar{p} K^- X$ (62)	Smith 86B	p, pt			< 4	Bystricky 87	cs
$\Lambda K^+ X$ (62)	Smith 86B	p, pt		$p n \pi^+$	0.65 - 0.8	Hollas 85	p, pol
$\Lambda K^- X$ (62)	Smith 86B	p, pt			0.9821 - 1.103	Waltham 83	angp, asym
$p K_S^0 X$ 32.1	Bogolyubsky 88F	cs			1 - 5	Yokosawa 85C	angp, asym
$\Lambda K_S^0 X$ 32.1	Bogolyubsky 88F	cs			1 - 6	Yokosawa 85	angp, asym
360	Aziz 88	ang, cs, mass, p, pt			1.08 - 1.459	Shypit 88	pol, pwa
	Bailly 87F	ang, angp, asym, p, pt			1.18 - 1.98	Wicklund 87	angp, cs, dme, mass
$\bar{\Lambda} K_S^0 X$ 32.1	Bogolyubsky 88F	cs			3 - 12	Wicklund 85	angp, asym, dme, mass
hyperon kaon X					< 4	Bystricky 87	cs
$p \bar{p} X$ 70	Abramov 84	p, pt		deuteron $\pi^+ \pi^0$	< 3	Bystricky 87	cs
360	Bailly 87F	ang, angp, asym, p, pt		$2p f_0(975)$	(40 - 63)	Toki 88B	-
(62)	Smith 86B	p, pt		$2p f_2(1270)$	300	Armstrong 89D	-
$2p X$ 2 - 11.75	Auer 88	cs, mass			(62)	Breakstone 86	-
6 - 10	Carroll 88	angp		$p(\text{spect}) p f_1(1285)$	300	Toki 88B	-
70	Abramov 84	p, pt		$2p f_1(1285)$	85	Armstrong 89C	cs
85	Armstrong 86B	mass, p				Augustin 88C	-
(62)	Breakstone 89B	angp, cs, mass, p, pt					-
	Smith 86B	p, pt					-
$2\bar{p} X$ (62)	Smith 86B	p, pt					-
$p \Lambda X$ (62)	Smith 86B	p, pt					-
				$\bar{p} \Lambda X$ (62)	Smith 86B	p, pt	
				$p \Lambda X + p \bar{\Lambda} X$ 32.1	Bogolyubsky 88F	cs	
				$\Lambda \bar{\Lambda} X$ 32.1	Bogolyubsky 88F	cs	
				Aziz 88	cs		
				Bailly 87F	ang, angp, asym, p, pt		
				$2\Lambda X$ 32.1	Bogolyubsky 88F	cs	
				hyperon hyperon X			
				π^- charm X	400	Aguliarbenit 88C	p, pt
				γ jet X	280	Bonesini 89B	p, pt
					(63)	Anassontzis 90	pt
				π^0 charged-hadron X	(63)	Akesson 86D	angp, mass, pt
				π^\pm jet X	10	Baldin 85	ang, p
				π^+ jet X	(62)	Breakstone 90	angp, p
				π^- jet X	(62)	Breakstone 86E	angp
				K^+ jet X	(62)	Breakstone 90	angp, p
				K^- jet X	(62)	Geist 89	angp, col, p, pt
				$\bar{\Lambda}_c^-$ charm X	400	Aguliarbenit 87	cs
				DD < charged > p X	69	Boos 88C	p, pt
				Λ_c^+ charm X	400	Aguliarbenit 87	cs
				Λ charged-hadron X	360	Bailly 87F	ang, angp, asym, p, pt
				(jets) jet X	400	Miettinen 88	a-dep, angp, et, p
				shower jet X	200 - 400	Boos 88B	angp, mult
				2hadron X	5 - 70	Prokoshkin 87C	angp
				$2\text{hadron}^+ X$	70	Abramov 84	p, pt
					360	Bailly 87F	ang, angp, asym, p, pt
					400	Brown 86	mass
				$2\text{hadron}^- X$	70	Abramov 84	p, pt
					360	Bailly 87F	ang, angp, asym, p, pt
				$\text{hadron}^+ \text{hadron}^- X$	70	Abramov 84	p, pt
					360	Bailly 87F	ang, angp, asym, p, pt
					801.3	Jaffe 88	cor
				2jet X	200	Naudet 86	p, pt

$p p \rightarrow 2p f_1(1285)$

$p p \rightarrow 2\text{hyperon } 2\text{kaon } X$

$p p$				$p p$				$p p$			
$2p f_1(1285)$	85 - 300	Armstrong 89E	cs	$\pi^- 2\text{jet } X$	(62)	Geist 89	angp, col, p, pt	$2p K^+ K^-$	85	Armstrong 86B	<i>mass, pwa</i>
	300	Armstrong 89E	cs							Vassiliadis 85	angp, mass
	?	Armstrong 86E	cs, mass, pwa	$K^+ 2\text{jet } X$	(62)	Geist 89	angp, col, p, pt		300	Armstrong 89D	dme, mass
$p(\text{spect}) p f_2(1420)$	300	Toki 88B	-	$K^- 2\text{jet } X$	(62)	Geist 89	angp, col, p, pt			Armstrong 89F	ang, angp, mass
$2p f_1(1420)$	85	Augustin 88C	-	$3\text{jet } X$	(63)	Akesson 87	et		(62)	Armstrong 88	ang, angp, mass
	300	Armstrong 89	cs			Akesson 86	p		(63)	Breakstone 89B	angp, cs, mass, pt
	?	Armstrong 86E	-	$2K_S \text{ mult[charged] (neutrals)}$	32.1	Bogolyubsky 88F	cs, mult			Akesson 85D	pwa
$2p f_2'(1525)$	85	Toki 88B	-	$\Lambda K_S \text{ mult[charged] (neutrals)}$	32.1	Bogolyubsky 88F	cs, mult	$2p K^*(892)^- K^+$	85	Augustin 88C	mass
$2p f_2(1720)$	85	Toki 88B	-						85	Augustin 88C	mass
$2p \text{ mult}[\pi^\pm]$	(62)	Breakstone 86C	angp	$2p \pi^+ \pi^-$	< 5	Bystricky 87	cs		85	Augustin 88C	mass
$p \Lambda K^+$?	Bertini 88B	pol		11.75	Finley 85	ang, dme, mass, p	$2p \bar{K}^*(892)^0 K^0$	85	Augustin 88C	mass
$2p \text{ meson}^0$	85	Armstrong 87	cs		85	Armstrong 86B	mass, pwa		85	Augustin 88C	mass
	300	Armstrong 86B	cs		300	Vassiliadis 85	angp, mass	$2p K^*(892)^0 \bar{K}^*(892)^0$	85	Armstrong 86D	cs, mass
	(40 - 63)	Toki 88B	cs, mass, pwa			Armstrong 89F	ang, angp, mass				
$2p \text{ glueball}$	85	Armstrong 87	cs			Armstrong 88	ang, angp, mass	$p(\text{spect}) p K^*(892)^0 K_S^+$	300	Toki 88B	mass
	300	Chan 88	cs			Chan 88	ang, angp, mass	$p(\text{spect}) p K^*(892)^- K^+$	300	Toki 88B	mass
2hadron (hadrons)	205	Baldin 88B	col			Breakstone 89B	angp, cs, mass, pt	$2p K \bar{K}$	85	Toki 88B	mass
	(62)	Breakstone 89	angp, p, pt			Breakstone 88C	mass, pt	$2p 2K_S$	85	Vassiliadis 85	angp, mass
$3\text{charged } X$	400	Aguilarbenit 87	-			Breakstone 86	mass, p		300	Armstrong 89D	dme, mass
$2\text{charged (charged) (neutrals)}$	24	Batyunya 90	cs			Breakstone 86B	angp, mass			Armstrong 89F	ang, angp, mass
	400	Arenton 85	angp, col			Akesson 85D	angp, mass			Armstrong 88	ang, angp, mass
$2\pi^+ \pi^- X$	360	Bailly 86D	p	$2p 2\pi$	(40 - 63)	Toki 88B	mass	$3p \bar{p}$	85	Armstrong 87	mass, p
$3\pi^+ X$	360	Bailly 88E	p, pt			Bystricky 87	cs		85	Vassiliadis 85	angp, mass
	360	Bailly 86D	p	$2p \rho^0 \gamma$	< 5	Armstrong 89F	ang, angp, mass		(62)	Breakstone 89E	angp, cs, mass, pt
$3\pi^- X$	360	Bailly 88E	p, pt		300	Armstrong 88	ang, angp, mass	$2p \Lambda \bar{\Lambda}$	85	Armstrong 87	mass, p
	360	Bailly 86D	p	$2p a_0(980) + \pi^-$	85	Augustin 88C	mass		85	Vassiliadis 85	angp, mass
$\pi^+ 2\pi^- X$	360	Bailly 86D	p			Augustin 88C	mass	$DD < p > DD < p > \pi^+ \pi^-$	85	Vassiliadis 85	angp, mass
$K^+ \phi \pi^- X$	400	Torres 85	mass	$2p a_0(980)^- \pi^+$	85	Augustin 88C	mass	$DD < p > DD < p > K^+ K^-$	85	Vassiliadis 85	angp, mass
$K^- \phi \pi^+ X$	400	Torres 85	mass	$p \Delta(1323 P_{33})^{++} \rho^0 \pi^-$	85	Armstrong 89C	cs	$DD < p > DD < p > K^*(892)^0$	300	Armstrong 90	cs
$2K_S \pi^\pm X$	360	Aziz 88	mass		300	Armstrong 89E	cs, mass, pwa	$\bar{K}^*(892)^0$	300	Armstrong 90	cs
$p 2\text{charged } X$	400	Aguilarbenit 87	-	$2p a_2(1320)^+ \pi^-$	300	Armstrong 89E	cs, mass, pwa	$DD < p > DD < p > 2K_S$	85	Vassiliadis 85	angp, mass
$p 2K_S X$	32.1	Bogolyubsky 88F	cs		300	Armstrong 89E	cs, mass, pwa	$DD < p > DD < p > p \bar{p}$	85	Vassiliadis 85	angp, mass
$\Lambda 2K_S X$	32.1	Bogolyubsky 88F	cs	$2p a_2(1320)^+ \pi^- + 2p a_2(1320)^- \pi^+$	85	Armstrong 89C	cs	$2K \bar{K} X$	32.1	Bogolyubsky 88F	cs
$2p \pi^\pm X$	(62)	Breakstone 88C	angp, p, pt		300	Armstrong 89E	cs, mass, pwa	$\Lambda 2\pi^+ \pi^- X$	(63)	Chauvat 87	mass
$2\Lambda K_S X$	32.1	Bogolyubsky 88F	cs	$2p 2\rho^0$	300	Armstrong 89E	cs, mass, pwa	$\text{hyperon } 2K \bar{K} X$	32.1	Bogolyubsky 88F	cs
$\text{mult}[p] 2\text{charged } X$	200	Derado 88	a-dep, cor, mult, p		85	Armstrong 86D	cs	$p \Lambda 2K_S X + p \bar{\Lambda} 2K_S X$	32.1	Bogolyubsky 88F	cs
	200	Derado 88	a-dep, cor, mult, p	$2p 2\phi$	85	Armstrong 86	cs, mass		32.1	Bogolyubsky 88F	cs
$\pi^+ 2\text{jet } X$	(62)	Geist 89	angp, col, p, pt		300	Armstrong 89B	cs	$2\text{hyperon } 2\text{kaon } X$	32.1	Bogolyubsky 88F	cs
				$p n \pi^+ (\pi^0)_B$	< 7	Bystricky 87	cs				

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p p \rightarrow 2\text{charged}^+ 2\text{jet } X$ $p \text{ nucleon} \rightarrow K^+ K^- \phi X$

$p p$	$p p$	$p \text{ nucleon}$
2charged⁺ 2jet X (63) Akesson 87E ang, cor, p	2p K⁺ K_S π⁻ + 2p K_S K⁻ π⁺ 300 Armstrong 89 mass	mult[charged] (neutrals) 2 - 400 Boos 86 cs, mult
2charged⁻ 2jet X (63) Akesson 87E ang, cor, p	(hadrons) 4jet (6,2) Breakstone 85E	γ X 300 Artykov 90 pt
4jet X (62) Breakstone 89 (63) Akesson 87 ang, et	K⁺ 2K⁻ π⁺ π⁻ X 400 Torres 85 mass	Υ(1S) X 808.1 Albrow 88 mass
2p π⁺ π⁰ π⁻ < 11 Bystricky 87 cs	2K⁺ K⁻ π⁺ π⁻ X 400 Torres 85 mass	Υ(2S) X 808.1 Albrow 88 mass
p n 2π⁺ π⁻ < 12 Bystricky 87 cs	2p 2π⁺ 2π⁻ 85 Armstrong 89C mass, pwa 300 Armstrong 89E angp, mass Armstrong 89F ang, mass Armstrong 88 ang, angp, mass	Υ(3S) X 808.1 Albrow 88 mass
p Δ(1232 P₃₃)⁺⁺ π⁺ 2π⁻ 300 Armstrong 89E cs, mass	(6,2) Breakstone 89B angp, cs, mass, pt	D⁺ X 400 Georgiopoulos 84 angp, cs
p Δ(1232 P₃₃)⁰ 2π⁺ π⁻ 300 Armstrong 89E cs, mass	(6,3) Breakstone 88C pt Akesson 85D pwa	D⁻ X 400 Georgiopoulos 84 angp, cs
2p η π⁺ π⁻ 300 Armstrong 89F ang, angp, mass Armstrong 88 ang, angp, mass	2p K⁺ K⁻ π⁺ π⁻ 85 Armstrong 86D cs, mass, p 300 Armstrong 90 angp, mass Breakstone 89B angp, cs, mass, pt	D_s⁻ X 400 Georgiopoulos 84 angp, cs
2p ρ⁰ π⁺ π⁻ 85 Armstrong 89C cs 300 Armstrong 89E cs, mass, pwa	2p 2K⁻ 2K⁻ 85 Armstrong 86 cs, mass 300 Armstrong 89B mass	D_s⁺ X 400 Georgiopoulos 84 angp, cs
2p φ π⁺ π⁻ 85 Armstrong 86D cs	3p π⁺ π⁻ 8 Armstrong 87 mass, p (6,2) Breakstone 89B angp, cs, mass, pt	exotic-meson X 400 Davenport 86 cs Green 86 cs
2p f₂(1270) π⁺ π⁻ 85 Armstrong 89C cs 300 Armstrong 89E cs, mass, pwa	DD < p > DD < p > 2π⁺ 2π⁻ 300 Armstrong 89E angp, mass	Λ_c⁺ X 400 Aziz 85 cs
2p 2π⁰ (π⁰'s) < 7 Bystricky 87 cs	DD < > DD < p > K⁺ K⁻ π⁺ π⁻ 30 Armstrong 90 angp, mass	Λ_c⁺ X + D⁺ X + D⁻ X 400 Aziz 85 cs
2n 2π⁺ (π⁰'s) < 9 Bystricky 87 cs	6(charged) (neutrals) 2C1 - 400 Abduzhamilov 88 col, cor	charm X 70 Belikov 89 cs
p Δ(1232 P₃₃)⁺⁺ K⁺ K⁻ π⁻ 85 Armstrong 86D cs	2p 3π⁻ 3π⁻ (6,2) Breakstone 89B angp, cs, mass, pt	monopole X 400 Virodov 89 cs
2p K⁺(892)⁰ K⁻ π⁺ 85 Armstrong 86D cs	3p π⁺ 2π⁺ 85 Armstrong 87 mass, p	shower X 800 Abduzhamilov 89 mult, p
2p K⁺ K⁻ ρ⁰ 85 Armstrong 86D cs	p n	p nucleon 1.09 Berezchnoj 85 amp, pol
2p K⁺ K⁻ φ 85 Armstrong 86 cs, mass 300 Armstrong 89B cs	mult[charged] (neutrals) 40 Bhattacharje 90 mult Bhattacharje 89C mult, p	γ mult[charged⁻] X 300 Alimov 89B mult
2p K_S⁰(1430)⁰ K⁻ π⁺ 85 Armstrong 86D cs	γ X 300 Alimov 89B mult	e⁻ e⁺ X 1.696 - 5.762 Naudet 88B cs, mass, p
2A 2K⁺ (π⁰'s) 7.8 Aleshin 86 cs	π⁰ X 300 Artykov 86 cs, mult Azimov 85E cs	μ⁻ μ⁺ X 400 Badier 85B mass, p 808.1 Albrow 88 mass
p(spect) p K⁺ K_S π⁻ 300 Toki 88B mass	mult[π⁰] X 30- Armstrong 89E mult	φ π⁺ X 400 Georgiopoulos 84 ang, mass
2p K⁺ K_S π⁻ 85 Augustin 88C mass, pwa Armstrong 86E cs, mass, p, pwa 300 Armstrong 89F ang, angp, mass Armstrong 88 ang, angp, mass	mult[hadron] X 100 - 300 Bhattacharje 89B mult	φ π⁻ X 400 Georgiopoulos 84 ang, mass
2p K_S K⁻ π⁺ 85 Augustin 88C mass, pwa Armstrong 86E cs, mass, p, pwa 300 Armstrong 89F ang, angp, mass Armstrong 88 ang, angp, mass	p n 0.1474 - 1.464 Bystricky 86D amp, angp, cs 0.6103 Sowinski 87 angp, asym 1.463 Barlett 85 angp, pol 6 - 8 Soffer 85 angp, pol	2φ X 400 Davenport 86 mass Green 86 mass
	2p π⁻ 0.5043 Pointing 88 asym, pwa	charmed-meson charmed-meson X 70 Sviridov 88 cs
	5charg d (neutrals) 21 25 Saidkhanov 86 col, mass	Λ_c⁺ charmed-meson X 70 Sviridov 88 cs
		charm charm X 70 Sviridov 88 cs 200 - 360 Cobbaert 87 cs
		3charged X 400 Aziz 85 p
		K⁺ K⁻ π⁺ X 400 Georgiopoulos 84 mass, p
		K⁺ K⁻ π⁻ X 400 Georgiopoulos 84 mass, p
		K⁺ K⁻ φ X 400 Davenport 86 mass

p nucleon $\rightarrow K^+ K^- \phi X$

p He \rightarrow (jets) jet X

p nucleon			p deuteron			^3He							
$K^+ K^- \phi X$	Green 86	mass	$^3\text{He } \pi^0$	0.8 0.8081 - 1.09 1.604 - 3.722	Adams 89 Silverman 85 Berthet 85	pol angp angp	$^3\text{H } \Delta(1232 P_{33})^{++}$	Ellegaard 85	angp, p				
$K^+ K^- 2\phi X$	Green 86	mass	$^3\text{He } \pi^+$	0.9 - 1.1 1.09	Mayer 86 Silverman 85	pol angp	deuteron $p(\text{spect}) p$	0.8081 - 1.023 Epste'n 85	angp				
$2K^+ K^- \phi X + K^+ 2K^- \phi X$	Green 86	mass	$^3\text{He } \eta$	0.896 1.604 - 3.722	Mayer 89 Berthet 85	cs angp	deuteron $2p$	0.8081 - 1.023 Epstein 85	angp				
$2K^+ 2K^- X$	Davenport 86 Green 86	mass mass	dibaryon p	1.438 - 1.669	Andreev 88 Andreev 87C Andreev 87B	- cs cs	$3p n$	0.8354 - 1.671 Blinov 88	angp, cs, mass, p				
$K^+ K^- \phi \pi^+ \pi^- X$	Green 86	mass	dibaryon n	1.438 - 1.669	Andreev 88 Andreev 87C Andreev 87B	- cs cs	p ^4He						
$2K^+ 2K^- \phi X$	Green 86	mass	$\mu^- \mu^+ X$	800	Mishra 90	a-dep, p, pt	charged X	(124)	Fischer 88	a-dep, p, pt			
$2K^+ 2K^- \text{mult[charged]} (\text{neutrals})$	Georgiopoulos 84	mass	$2\pi^+ X$	400	Brown 86	mass	charged $^- X$	1196 (124)	Fredriksson 87 Fischer 88	p a-dep, p, pt			
$2K^+ 2K^- \pi^+ \pi^- X$	Green 86 Georgiopoulos 84	mass mass	$\pi^+ \pi^- X$	3.9	Nakai 89	a-dep, mass	mult[charged] X	1196 (220)	Fredriksson 87 Tannenbaum 89	mult et, p			
p deuteron			$2\pi^+ X$	400	Brown 86	mass	mult[charged $^-$] X	1196	Fredriksson 87	mult			
charged X	19.2 300	Boos 86B Crittenden 86	cs, mult angp	$2K^+ X$	400	Brown 86	mass	$p X$	46 - 400 1196	Gorshkova 85 Fredriksson 87	angp, p p		
charged $^+ X$	300	Crittenden 86	angp	$p \pi^+ X$	3.9	Nakai 89	a-dep, mass	deuteron X	46 - 400	Gorshkova 85	angp, p		
charged $^- X$	300	Crittenden 86	angp	$p \pi^- X$	3.9	Nakai 89	a-dep, mass	$^3\text{He } X$	46 - 400	Gorshkova 85	angp, p		
$\pi^+ X$	400	Jaffe 89 Brown 86	pt a-dep, pt	$2\text{hadron}^+ X$	400	Brown 86	mass	hadron X	(157.5)	Akesson 89	et		
$\pi^- X$	4.2	Bartke 85	a-dep, asym, p	$2p n$	0.2873 0.5 - 0.8 1.099 1.099 - 1.101 1.14 - 1.669 1.438 - 1.669	Kistryn 89 Chalmers 85 Perdrisat 84 Punjabi 88 Andreev 84 Andreev 88 Andreev 87C Zielinsky 88 Aleshin 90 Aleshin 87B	pol pol angp angp, p ang, mass ang, mass cs, mass angp, pol angp, p, pol angp, cs	$2\text{charged } X$	1196	Fredriksson 87	cor, p		
$\psi(2S) X$	800	Mishra 90	a-dep, a-dep, p, pt	$2p n$	1.463 - 1.696 1.5 - 1.7 1.696	Andreev 87B Zielinsky 88 Aleshin 90 Aleshin 87B	ang, mass ang, mass cs, mass angp, pol	$2p X$	1196	Fredriksson 87	p		
$\Upsilon(1S) X$	800	Mishra 90	a-dep	deuteron $n \pi^+$	1.098	Debebe 85	angp, cs	p He					
$K^+ X$	400	Jaffe 89 Brown 86	pt a-dep, pt	$2p \pi^+ X$	3.9	Nakai 89	a-dep, angp	mult[charged] (neutrals)	400	Miettinen 88	a-dep, angp, col, et, mult, p		
$K^- X$	400	Jaffe 89	pt	$2p \pi^- X$	3.9	Nakai 89	a-dep, angp	$\pi^0 X$	1037	Richard 87	a-dep, p, pt		
$p X$	0.5 1.696 3.9 400	Rees 86 Belostotsky 84 Nakai 89 Jaffe 89	pol pol a-dep, angp pt	$p(\text{spect}) 2p \pi^-$	0.9543	Ponting 88	asym, pwa	$\pi^- X$	4.2	Bartke 85	a-dep, asym, p		
$\bar{p} X$	400	Jaffe 89	pt	$2p \pi^+ \text{ charged (neutrals)}$	3.88	Nagai 87	angp, mass	ϕX	535.3 - 1037	Akesson 85F	cs		
$n X$	1.696	Baturin 87	a-dep, angp	$2p \pi^- \text{ charged (neutrals)}$	3.88	Nagai 87	angp, mass	$p X$	1.696	Belostotsky 84	pol		
$\Delta(1232 P_{33})^0 X$	3.88	Nagai 87	angp, cs	p ^3He				He p	< 0.3104 0.3126 1.337 - 1.686	Donoghue 84D Lang 85B Dobrovolsky 88 Velichko 85 Alkhazov 85	- asym, pol angp angp, cs angp		
hadron $^+ X$	400	Jaffe 89 Brown 86	pt a-dep, pt	charged X	5	Abdullin 89H	cs	$\pi^+ \text{ charged } X$	530.3 - 1037	Akesson 85F	mult		
hadron $^- X$	400	Jaffe 89	pt	deuteron X	1.6 - 1.9 1.61	Zielinsky 88 Yokosawa 85C	cs, mass -	$\pi^- \text{ charged } X$	530.3 - 1037	Akesson 85F	mult		
$^3\text{He } \eta$	0.4446 - 1.09	Fearing 86	angp, pol	anomalon X	5	Abdullin 89H	cs	$K^+ \text{ charged } X$	530.3 - 1037	Akesson 85F	mult		
deuteron p	0.2873 < 0.3104 0.5804 1.085 - 1.463 1.09 - 1.463 1.337 - 1.686	Kistryn 89 Donoghue 84D Vanoers 85 Sun 85 Rahbar 87 Dobrovolsky 88 Velichko 85	pol - pol pol asym, pol angp angp	$^3\text{He } p$	0.0433 - 0.1374	Beltramin 85 Hasell 85 Alkhazov 85	amp angp, pol angp	$K^- \text{ charged } X$	530.3 - 1037	Akesson 85F	mult		
	1.463 1.61 3.5	Barlett 85 Yokosawa 85 Ohmori 88	angp, pol - pol		0.6444 - 1.11 1.696			$K^+ K^- X$	530.3 - 1037	Akesson 85F	cs		
					$^3\text{H } \Delta(1232 P_{33})^{++}$	2.251 - 3.099	Ellegaard 89	pol	$2K^+ X$	530.3 - 1037	Akesson 85F	cs	
									$2K^- X$	530.3 - 1037	Akesson 85F	cs	
									(jets) jet X	400	Miettinen 88	a-dep, angp, et, p	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\bar{\nu}_\mu \text{Ne} \rightarrow \rho^0 \mu^+ X$ $e^- \gamma \rightarrow \eta' e^-$

$\bar{\nu}_\mu \text{Ne}$	$\bar{\nu}_\mu \text{Ne}$	$\bar{\nu}_\mu \text{nucleus}$
$\rho^0 \mu^+ X$ 10 - 100 < 200	Wittek 89 mult. p. pt Wittek 87 dme Schmitz 88 mult. pol	$2K_S \mu^+ e^- X$ 10 - 100 Baton 85 cs. mass. p. pt
$\omega \mu^+ X$ 10 - 100	Wittek 89 mult. p. pt	$\Lambda K_S \mu^+ e^- X$ 10 - 100 Baton 85 cs. mass. p. pt
$f_2(1270) \mu^+ X$ 10 - 100	Wittek 89 mult. p. pt	$\Lambda K_S \mu^- \mu^+ X$ 10 - 100 Baton 85 cs. mass. p. pt
$\text{mult}[\pi^+] \mu^+ X$ 10 - 100	Wittek 88 angp. mult. p.	$\bar{\nu}_\mu \text{Fe}$
$\text{mult}[\pi^-] \mu^+ X$ 10 - 100	Wittek 88 angp. mult. p.	$\bar{\nu}_\mu X$ 10 - 160 Abramowicz 85 cs
$\text{mult}[\pi^0] \mu^+ X$ 10 - 100	Wittek 88 angp. mult. p.	$\mu^+ X$ 10 - 160 Berge 87 cs Abramowicz 85 cs Burkhardt 85 cs Stockdale 85 cs Merritt 87 ang. cs. pt Reutens 85 cs
$D_S^- \mu^+ X$ < 300	Schmitz 88 cs	$\mu^- \mu^+ X$ 10 - 260 Burkhardt 85 cs Foudas 88 cs. p. pt Merritt 87 ang. cs. pt
$p \mu^+ X$ < 200 < 300	Schmitz 88 mult Schmitz 88 asym	$2\mu^+ X$ 10 - 260 Burkhardt 85 cs Schumm 88 p. pt Merritt 87 ang. cs. pt Merritt 87B cs. p
$\text{mult}[p] \mu^+ X$ 10 - 300	Guy 89 cs. mult. p.	$\mu^+ \text{charm} X$ 30 - 600 Foudas 88
$\mu^+ \text{mult}[\text{hadron}^+] X$ 10 - 100	Wittek 88 angp. mult. p.	$\bar{\nu}_\mu \text{nucleus}$
$\mu^+ \text{mult}[\text{hadron}^-] X$ 10 - 100	Wittek 88 angp. mult. p.	charged X 0.1 - 1.1 0.4 - 2
$\text{Ne } \pi^- \mu^+$ 10 - 100	Marage 86 angp. cs. mass. p Ammosov 86C angp. cs Aderholz 89 cs	$\bar{\nu}_\mu X$ 0.2 - 20 Berger 89B flux Perdereau 89 flux Longuemare 88 flux
$\text{Ne } \rho^- \mu^+$ 10 - 100	Marage 87 cs	$\mu^+ X$ 0.1 - 1.1 0.2 - 20
$\text{Ne } \alpha_1(1260)^- \mu^+$ 10 - 200	Ammosov 88C cs	0.4 - 2 Bionta 88 flux Nakamura 88 flux Bergsma 88 cs Oyama 88B cs
$\pi^+ \pi^- \mu^+ X$ 10 - 100	Wittek 87 ang. mass. p	$\tau^- X$ 10 - 100 Ushida 86C cs
$\rho^+ \pi^- \mu^+ X$ 10 - 100	Wittek 89 mult. p. pt	charged-meson X 10 - 200 Asratyan 87B
$\phi \pi^- \mu^+ X$ < 300	Schmitz 88 mass	$\pi^0 \mu^+ X$ 3 - 30 Baranov 85 mult
$K_S \mu^+ e^- X$ 10 - 100	Baton 85 cs. mass. p. pt	$\pi^- \mu^+ X$? Ramm 85 mass
$K_S \mu^- \mu^+ X$ 10 - 100	Baton 85 cs. mass. p. pt	$\rho^0 \mu^+ X$ 10 - 100 Wittek 87 dme
$\Lambda \mu^+ e^- X$ 10 - 100	Baton 85 cs. mass. p. pt	$D^*(2010)^- \mu^+ X$ 10 - 200 Ammosov 87F cs
$\Lambda \mu^+ e^- X + K_S \mu^+ e^- X$ 10 - 100	Baton 85 cs. mass. p. pt	$K^- \pi^+ X$ 10 - 200 Asratyan 87B mass
$\Lambda \mu^- \mu^+ X$ 10 - 100	Baton 85 cs. mass. p. pt	$K_S \pi^+ X$ 10 - 200 Asratyan 87B mass
$\Lambda \mu^- \mu^+ X + K_S \mu^- \mu^+ X$ 10 - 100	Baton 85 cs. mass. p. pt	$p \mu^+ X$ 3 - 30 Ammosov 85C angp. p
$p (p^*) \mu^+ X$ 10 - 300	Guy 89 cs. mult. p	$\text{mult}[p] \mu^+ X$ 3 - 30 Ammosov 85C mult
$\text{mult}[p] \mu^+ \text{mult}[\text{hadron}^-] X$ 10 - 300	Guy 89 a-dep. mult	nucleus $\pi^0 \bar{\nu}_\mu$ 10 - 260 Bergsma 85B cs
$\text{Ne } \pi^0 \pi^- \mu^+$ 10 - 100	Marage 87 angp. p	nucleus $\pi^- \mu^+$ 3 - 30 Grabosch 86 angp. cs. p
		$\pi^+ \pi^- \mu^+ X$ 10 - 100 Wittek 87 ang. mass. p
		$\phi \mu^+ \gamma X$ 10 - 200 Asratyan 86 mass Asratyan 86B mass
		$\phi \pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K^- \pi^+ \pi^0 X$ 10 - 200 Asratyan 87B mass
		$K^- 2\pi^+ X$ 10 - 200 Asratyan 87B mass
		$K_S \pi^+ \pi^0 X$ 10 - 200 Asratyan 87B mass
		$K_S \pi^+ \pi^- X$ 10 - 200 Asratyan 87B mass
		$K_S K^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$\pi^0 \mu^+ \text{charged (neutrals)}$ 3 - 30 Baranov 85 mult
		nucleus $\mu^- \mu^+ \bar{\nu}_\mu$ 10 - 160 Geiregat 90 cs
		$\phi \pi^0 \pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K^+ 2\pi^- \mu^+ X$ 10 - 200 Ammosov 87F mass. p
		$K^+ \pi^+ \pi^- \mu^+ X$ 10 - 200 Ammosov 87F mass. p
		$K^- 2\pi^+ \pi^- X$ 10 - 200 Asratyan 87B mass
		$K^+ K^- \pi^- \mu^+ X$ 10 - 200 Asratyan 87 mass
		$K_S K^- \pi^0 \mu^+ X$ 10 - 200 Asratyan 87C mass
		$\phi \pi^+ 2\pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K^+ K^- \pi^- \mu^+ \gamma X$ 10 - 200 Asratyan 86 mass Asratyan 86B mass
		$K^+ K_S 2\pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$K_S K^- \pi^+ \pi^- \mu^+ X$ 10 - 200 Asratyan 87C mass
		$\nu_\tau \text{nucleus}$
		$\tau^- X$ < 400 Talebzadeh 87 cs
		$\bar{\nu}_\tau \text{nucleus}$
		$\tau^+ X$ < 400 Talebzadeh 87 cs
		$e^- \gamma$
		e^{*-} (14 - 28) Bonneaud 86 cs
		$e^- X$ (2 - 13) 14.5 Aihara 87B cs Aihara 89C cs Aihara 87F p Aihoff 86B p 16.5 - 17.5 Berger 87C p 17.3 Sasaki 89 p 25 - 28 Sasaki 88 p Berger 87B col. const. p Kolanoski 86 const. p
		ηe^- ? Berger 87B p
		$\eta' e^-$ 14.5 Aihara 88D cs Gidal 88B cs Landsberg 85 p
		?

$p \text{ Be} \rightarrow \Sigma^0 \text{ X}$ $p \text{ }^{10}\text{Bor} \rightarrow \text{}^{11}\text{Bor}^* \pi^+$

p Be				p Be			p Be				
$\Sigma^0 \text{ X}$	22 28.5	Bonner 89 Dukes 87 Sullivan 87	p, pol pol cs, p, pt	$e^- e^+ \text{ X}$	800	Yoshida 89 Brown 86	mass, p, pt mass	2^3H X	1.09	Cebra 89	cor, p
$\Xi^0 \text{ X}$	400	Beretvas 86	angp, cs, p	$2e^+ \text{ X}$	5.762	Letessiersel 89B	mass, pt	$^4\text{He deuteron X}$	1.09	Cebra 89	cor, p
$\Xi^{\pm} \text{ X}$	400	Beretvas 86	angp, cs, p	$2e^- \text{ X}$	5.762	Letessiersel 89B	mass, pt	charm charm X	400	Duffy 85 Romanowski 85	a-dep
$\Omega^- \text{ X}$	400	Luk 88	-	$2e^- \text{ X} + 2e^+ \text{ X}$	5.762	Roche 88C	mass, p, pt	(jets) jet X	400	Miettinen 88	a-dep, angp, et, p
deuteron X	2.03 - 10.1 2.5 - 9.2 6.37 - 8.08 10.1 10.14 17.98 - 63.99	Ergakov 86 Safronov 88 Arefiev 85 Safronov 88B Boyarinov 88 Belyaev 89C	a-dep, angp angp a-dep, angp angp angp, p angp, p, pol	$\mu^- \mu^+ \text{ X}$	200 - 250	Bauer 85 Brown 86	mass mass	2hadron⁺ X	400 800	Brown 86 Streets 89	mass a-dep, ang, mass, pt
deuteron X	70	Abramov 86	a-dep, pt	$2\pi^+ \text{ X}$	70	Abramov 84D Brown 86	a-dep, angp, pt mass	2hadron⁻ X	800	Streets 89	a-dep, ang, mass, pt
$^3\text{He X}$	10.1	Safronov 88B Ergakov 86	angp a-dep, angp	$\pi^+ \pi^- \text{ X}$	13.3 - 18.5	Bonner 88	mass	hadron⁺ hadron⁻ X	400	Hsiung 85	a-dep, mass, pt
$^3\text{H X}$	6.37 - 8.08 10.1	Arefiev 85 Safronov 88B Ergakov 86 Boyarinov 88 Abramov 86	a-dep, angp angp a-dep, angp angp, p a-dep, pt	$\phi \pi^+ \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass	2jet X	800	Stewart 90	a-dep, angp, col, et
$^4\text{He X}$	10.1	Safronov 88B	angp	$\phi \pi^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass	$^6\text{He He p}$	0.5523	Wang 85D	cs, p, pwa
charm X	400	Duffy 88	a-dep, cs	$J/\psi(1S) \gamma \text{ X}$	200 - 250	Bauer 85	mass	$\mu^- \mu^+ \gamma \text{ X}$	200 - 250	Bauer 85	mass
bottom X	400	Duffy 88	cs	$K^+ \phi \text{ X}$	200	Dijkstra 86C Dijkstra 86C	mass mass	$K^+ 2\pi^+ \text{ X}$	70	Abramov 84D	a-dep, angp, pt
bottom X	400	Duffy 88	cs	$K^- \phi \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass	$K^+ K^- \pi^+ \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
charged-hadron X	400	Bernstein 88	cs, p	$K^+ K^- \text{ X}$	100 - 200	Dijkstra 86	ang, dme, mass	$K^+ K^- \pi^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
charm X	400	Duffy 88	a-dep, cs	$2K^+ \text{ X}$	400	Brown 86	mass	$K^+ 2K^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
fragt X	0.6266 - 0.8081	Green 86B	angp	$K_S \phi \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass	$2K^+ K^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
hadron⁺ X	400	Brown 86 Hsiung 85	a-dep, pt a-dep, pt	$2K_L \text{ X}$	800	Yamanaka 89 Gibbons 88	p angp, p	$K^+ K_S K^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
jet X	800	Stewart 90	a-dep, angp, col, pt	charmed-meson	400	Duffy 88	a-dep, cs	$p K^- \pi^- \text{ X}$	400	Luk 88	mass
longived X	400	Bernstein 88	cs, p	$p \pi^+ \text{ X}$	70	Abramov 84D	a-dep, angp, pt	$p K^+ K^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
multihadron X	800	Tannenbaum 89	et, p	$p \pi^- \text{ X}$	13.3 - 18.5	Bonner 88	mass	$\bar{p} K^+ K^- \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass
Be p	0.6791 1.696	Roy 85B Alkhozov 85B	cs, pol, pwa angp	$p \phi \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass				
$^{10}\text{C } \pi^-$	1.282	Hoistad 86	angp, asym	$\bar{p} \phi \text{ X}$	120 200	Dijkstra 86C Dijkstra 86C	mass mass				
2charged⁺ X	70	Abramov 84D	a-dep, angp, pt	$p K^+ \text{ X}$	70	Abramov 84D	a-dep, angp, pt				
$e^- e^+ \text{ X}$	1.696	Naudet 88C Roche 88	l, ss, pt l, ss, pt	Λ_c^{\pm} charmed-meson X	400	Duffy 88	a-dep, cs	p ^{10}Bor			
1.696 - 5.762 1.742 - 5.762 2.89 - 5.762	Naudet 88B Naudet 88 Naudet 88C Roche 88	cs, mass, p cs, mass, pt mass mass		$2p \text{ X}$	1.09 70	Cebra 89 Abramov 84D	cor, p a-dep, angp, pt	$p \text{ X}$	7.5	Bayukov 85D Gavrilov 85B	angp, p a-dep, angp, p
5.762	Roche 87 Letessiersel 89B Letessiersel 89B	cs, mass, pt mass, pt mass, pt		deuteron p X	1.09	Cebra 89	cor, p	$n \text{ X}$	1.696 7.5	Baturin 87 Bayukov 85D Gavrilov 85B	a-dep, angp a-dep, angp, p a-dep, angp, p
	Roche 88B Roche 88C	cs, mass, pt mass, p, pt		2deuteron X	1.09	Cebra 89	cor, p	deuteron X	7.5	Gavrilov 85B	a-dep, angp, p
				$^4\text{He p X}$	1.09	Cebra 89	cor, p	$^{11}\text{Bor } \pi^+$	0.6444 - 0.7453	Ziegler 85	angp, pol
								$^{11}\text{Bor}^* \pi^+$	0.6444 - 0.7453	Ziegler 85	angp, pol

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p^{11}\text{Bor} \rightarrow p X$ $p C \rightarrow \text{dibaryon } X$

$p^{11}\text{Bor}$		$p C$		$p C$	
$p X$	7.5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p	charged ⁻ X	2.3 Grigalashvil 88 a-dep, mult	$J/\psi(1S) X$	530 De 89 a-dep, cs, p 800 Mishra 90 a-dep, p, pt
$n X$	1.696 Baturin 87 a-dep, angp 7.5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p	4.2 Grigalashvil 88 a-dep, mult	mult[charged] X	$\psi(2S) X$	800 Mishra 90 a-dep
deuteron X	7.5 Gavrilov 85B a-dep, angp, p	4.2 - 10 Mekhtiev 88 et Baatar 87B cs, mult, p, pt Remsberg 88 cs, mult, p, pt	14.5 Remsberg 88 mult	$T(1S) X$	800 Mishra 90 a-dep
$^{11}\text{Bor } p$	1.696 Alkhazov 85B angp	mult[charged ⁺] X	10 Armutlijsky 87B	$\chi(\text{unspec}) X$	530 De 89 -
$p^{12}\text{C}$		mult[charged ⁻] X	2.3 Grigalashvil 88 a-dep, mult	positronium X	70 Afanasyev 90 cs Afanasyev 90B cs
inelastic	1.35 - 3.75 Gachurin 85 cs	4.2 Grigalashvil 88 a-dep, mult	10 Armutlijsky 87B cs, mult	$K^+ X$	1.468 - 1.685 Koptev 88 cs 1.505 - 1.685 Abrosimov 85B cs 1.693 Koptev 88 cs Kobrosimov 85B cs 70 Abramov 84E a-dep, pt
$^{12}\text{C } X$	4.491 Kozma 89B cs	10 Armutlijsky 87B cs, mult	neutral X	$K^- X$	70 Abramov 84E a-dep, pt
$\pi^+ X$	0.8533 - 1.09 Digiacoimo 85 p	14.5 Remsberg 88 p Tannenbaum 88 et, p	mult[charged] (neutrals)	$p X$	0.3956 - 1.199 Mcnaughton 86 pol 0.5513 Segel 85 cs, p 1 - 9 Bayukov 85C a-dep, angp, p
$\pi^+ X$	0.6084 - 0.6462 Bimbob 85 angp, cs 0.8533 - 1.09 Digiacoimo 85 p 15 - 61 Belyaev 88 angp Belyaev 88B angp	4.2 - 10 Baatar 88 cor, mass, mult, p, pt Miettinen 88 cs a-dep, angp, col. et, mult, p Gomez 86 col. et	γX		1.463 Miake 84 a-dep, angp, p 1.696 Baturin 87B angp, p Baturin 85 a-dep, p Belostotsky 84 pol 3.9 Nakai 89 a-dep, angp 4.2 Gulkanyan 88D a-dep, angp, cor, cs, mult Kopylova 87 p Armutlijsky 86C angp, mult, p
$\pi^- X$	0.6084 - 0.6462 Bimbob 85 angp, cs 0.8533 - 1.09 Digiacoimo 85 p 4.3 - 9.9 Bajramov 89 p 15 - 61 Belyaev 88 angp Belyaev 88B angp	10 Armutlijsky 85B angp Afanasyev 90 angp Afanasyev 90B cs Badier 85F pt Bardadinotwi 85 p, pt	$\pi^0 X$	4.2 - 10 Agakishiev 88 Armutlijsky 87C p	
$p X$	16.97 - 31.99 Belyaev 89 angp, angp, p, pol 16.97 - 61.99 Belyaev 88C angp, pol	4.5 Abraamyan 88 p, pt 10 Armutlijsky 86 cs 200 Badier 85E cs, p, pt Badier 85F pt Bardadinotwi 85 p, pt	$\pi^\pm X$	7.5 Vorobiev 86B angp, p Vorobiev 85D angp, p Bayukov 85F a-dep, p Vorobiev 85B pol Armutlijsky 87 p Kopylova 87 p Kopylova 86B angp Armutlijsky 85B angp, cs, mult	
$n X$	1.696 Baturin 87 a-dep, angp 4.2 Bekmirzaev 87B angp, mult, p 4.2 - 10 Bekmirzaev 89 mult, p Bekmirzaev 87 angp, mult, p	$\pi^+ X$	0.9543 - 1.023 Falk 83 asym, p Bayukov 85E a-dep, angp, p 4.2 Kopylova 87 p Simich 86 mult, p 7.5 Vorobiev 89B a-dep, angp Vorobiev 88D a-dep, angp, p	17.98 - 63.99 Belyaev 89C angp, p, pol 70 Abramov 84E a-dep, pt 200 Bardadinotwi 85 p, pt 200.9 Schmidt 88 p, pt 800 Gomez 86B -	
deuteron X	16.97 - 31.99 Belyaev 89 angp, angp, p, pol	$\pi^- X$	10 Bayukov 85E a-dep, angp, p Barlow 88 angp 4.2 Agakishiev 89B angp, mult, p Simich 86 angp, mult, p Bartke 85 a-dep, asym, p Agakishiev 84B angp, mult, p, pt Armutlijsky 87B a-dep, angp, mult, p Kopylova 86B angp Armutlijsky 85B angp, mult, p 70 Abramov 84E a-dep, pt 200 Bardadinotwi 85 p, pt	$\bar{p} X$	70 Abramov 84E a-dep, pt
dibaryon($S = -1$) X	10 Shahbazyan 90 cs, mass	25 - 65 Angelov 89 col, p 70 Angelov 89 col, p 200 Angelov 89 col, p	$\pi^- X$	$\Delta(1232 P_{33})^{++} X$	7.5 Vorobiev 90 angp
$^{12}\text{C } p$	0.046 Sedlak 88 angp 1.696 Alkhazov 85B angp	$\pi^- X$	1 - 9 Bayukov 85E a-dep, angp, p 1.463 Barlow 88 angp 4.2 Agakishiev 89B angp, mult, p Simich 86 angp, mult, p Bartke 85 a-dep, asym, p Agakishiev 84B angp, mult, p, pt Armutlijsky 87B a-dep, angp, mult, p Kopylova 86B angp Armutlijsky 85B angp, mult, p 70 Abramov 84E a-dep, pt 200 Bardadinotwi 85 p, pt	$\Delta(1232 P_{33})^0 X$	3.88 Nagae 87 angp, cs
$2p X$	0.6444 Cowley 88 angp, p	10 Kopylova 87 a-dep, angp, p Armutlijsky 85B angp, mult		ΛX	3 - 7.5 Vorobiev 89C angp
mult[charged] 2neutral (neutrals)	4.2 - 10 Angelov 89 col, p			deuteron X	4.2 Kopylova 87 p 10 Armutlijsky 87 cs, p Kopylova 87 p 17.98 - 63.99 Belyaev 89C angp, p, pol
π^\pm mult[charged] 2neutral (neutrals)	4.2 - 10 Angelov 89 col, p				
p mult[charged] 2neutral (neutrals)	4.2 - 10 Angelov 89 col, p			dibaryon X	7.5 Vorobiev 87C cs
$p C$					
X	800 Gomez 86 a-dep, cs				
inelastic	1.26 - 2.5 Kuzichev 89 a-dep, cs 4.2 Grigalashvil 88 cs (106.4 - 473.2) Avakyan 89C a-dep, cs				
charged X	2 - 10 Kutsidi 86 mult 2.3 Grigalashvil 88 mult 4.2 Mekhtiev 88 a-dep, mult et, mult				

$p\text{C} \rightarrow {}^3\text{He}\text{X}$ $p\text{C} \rightarrow 2\text{jet}\text{X}$

$p\text{C}$		$p\text{C}$		$p\text{C}$	
${}^3\text{He}\text{X}$ 7.48	Abashidze 85B a-dep, angp	$\pi^+\pi^-\text{X}$ 4.2	Angelov 88 ang, cor	$2p\text{X}$	Bayukov 89C ang, angp, p
${}^3\text{H}\text{X}$ 0.5513	Segel 85 cs, p	$J/\psi(1S)\gamma\text{X}$ 530	De 89 mass	10	Bayukov 88 angp, cor
${}^4\text{He}\text{X}$ 7.48	Abashidze 85B a-dep, angp	$\pi^-\text{mult}[\pi^-\text{X}]$ 4.2	Aliev 89 angp, cor, mult	$2p\text{X} + p\pi^+\text{X} + p\pi^-\text{X}$ 10	Vorobiev 87C mass
$\text{mult}[p]\text{X}$ 4.2 4.2 - 10	Gulkanyan 88D mult	$K_S\pi\text{X}$ 10	Armutlijsky 88 angp, mult, p, pt	10	Agakishiev 87B cor
hadron^+X 10	Armutlijsky 85B angp, mult, p, pt	$p\text{ charged X}$ 1.696	Andronenko 86 ang, mult	7.5	Armutlijsky 85B cs, mult
hadron^-X 10	Armutlijsky 85B pt	4.2 - 10	Agakishiev 88 ang, mult, p	$p\text{ n X}$ 7.5	Kopylova 86E cor
jet X 800	Stewart 90 a-dep, angp, col, pt	$p\text{ charged}^+\text{X}$ 4.2	Angelov 88 ang, cor	10	Vlasov 89 a-dep, ang, cor, p
$\text{mult}[\text{hadron}]\text{X}$ 10 800	Baldin 86B -	4.2 - 10	Agakishiev 88 mult, p	$\text{deuteron } \pi^0\text{X}$ 10	Armutlijsky 87 mult, p
$2\text{charged}^+\text{X}$ 4.2	Angelov 88 ang, cor	$p\text{ charged}^-\text{X}$ 4.2 - 10	Agakishiev 88 mult, p	7.5	Vlasov 90 a-dep, ang, angp, cor, p
$2\gamma\text{X}$ 4.5 200	Abraamyan 88 mass	$n\text{ charged X}$ 4.2 - 10	Agakishiev 88 mult, p	10	Armutlijsky 87 mult
$\pi^0\text{ charged}^+\text{X}$ 10	Armutlijsky 86 pt	$n\text{ charged}^-\text{X}$ 4.2 - 10	Agakishiev 88 mult, p	$p\Lambda\text{X}$ 10	Armutlijsky 88 mult, p, pt
$\pi^0\text{ charged}^-\text{X}$ 10	Armutlijsky 86 pt	$p\pi^0\text{X}$ 10	Armutlijsky 86 mult	${}^3\text{H charged X}$ 1.696	Andronenko 86 mult
$\pi^\pm\text{ charged X}$ 1.696	Andronenko 86 ang, mult	7.5	Armutlijsky 85B mult	$\text{deuteron } p\text{X}$ 1.463 7.5	Miake 84 angp
$\pi^+\text{ charged}^+\text{X}$ 4.2	Angelov 88 ang, cor	$p\pi^\pm\text{X}$ 3.9 7.5	Vorobiev 90 mass	10	Bayukov 89C ang, angp, p
$\pi^-\text{ charged}^+\text{X}$ 4.2	Angelov 88 ang, cor	$p\pi^+\text{X}$ 3.9 7.5	Nakai 89 a-dep, mass		Vlasov 89B ang, p
$\mu^-\mu^+\text{X}$ 800	Mishra 90 a-dep, p, pt	10	Vlasov 90 a-dep, ang, angp, cor, p	$\text{deuteron } n\text{X}$ 7.5	Vlasov 86 ang, angp, p
$2\pi^0\text{X}$ 10	Agakishiev 87B cor	$p\pi^-\text{X}$ 3.9 4.2 10	Vorobiev 90 mass		Armutlijsky 87 cor, mult
$\pi^0\pi^\pm\text{X}$ 10	Armutlijsky 86 mult	4.2	Armutlijsky 85B mult	${}^3\text{H } p\text{X}$ 7.5	Bayukov 89C ang, angp, p
$\pi^+\pi^0\text{X}$ 10	Armutlijsky 86 mult	$p\pi^+\text{X}$ 3.9 4.2 10	Nakai 89 a-dep, mass		Vlasov 89B ang, p
$\pi^0\pi^-\text{X}$ 10	Armutlijsky 86 angp, mult, p	$p\pi^-\text{X}$ 3.9 4.2 10	Angelov 88 ang, cor	2deuteron X 7.5	Bayukov 89C ang, angp, p
$2\pi^\pm\text{X}$ 10	Armutlijsky 85B cs	$p\pi^+\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p		Bayukov 89C ang, angp, p
$\pi^+\pi^\pm\text{X}$ 10	Armutlijsky 85B mult	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$\text{hadron mult}[\text{charged}]\text{X}$ 4.2 - 10	Baatar 87B angp, cs, mult, p, pt
$\pi^-\pi^\pm\text{X}$ 10	Armutlijsky 85B angp, mult, p	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$\pi^\pm\text{ hadron}^+\text{X}$ 10	Armutlijsky 85B angp, mult, p, pt
$2\pi^+\text{X}$ 7.5	Vlasov 90 a-dep, ang, angp, cor, p	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$\pi^\pm\text{ hadron}^-\text{X}$ 10	Armutlijsky 85B pt
10	Vorobiev 89B angp, cor, pt	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$\pi^\pm\text{ jet X}$ 10	Baldin 85 ang, p
$2\pi^-\text{X}$ 4.2 10	Angelov 88 ang, cor	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$\pi\text{ hadron X}$ 10	Lyubimov 88 col
$\pi^+\pi^-\text{X}$ 3.9	Agakishiev 87B cor	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$p(p's)\text{X}$ 4.2 - 10	Angelov 88 angp, col
	Nakai 89 a-dep, mass	$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$p\text{ hadron}^+\text{X}$ 10	Armutlijsky 85B angp, mult, p, pt
		$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$p\text{ hadron}^-\text{X}$ 10	Armutlijsky 85B pt
		$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$(\text{jets})\text{jet X}$ 400	Miettinen 88 a-dep, angp, et, p
		$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	$\text{shower mult}[\text{shower}]\text{X}$ 4.2	Aliev 89 angp, cor, mult
		$p\pi^-\text{X}$ 3.9 4.2 10	Armutlijsky 85B angp, mult, p	2jet X 800	Stewart 90 a-dep, angp, col, et

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p C \rightarrow \pi$ mult[charged] (neutrals) $p Ne \rightarrow \gamma$ mult[charged⁻] X

p C	p C	p ¹⁶O
π mult[charged] (neutrals) 4.2 - 10 Baatar 89 angp, mass, mult, pt	$2p \pi X$ 10 Agakishiev 87B cor	πX 1.696 Baturin 87 a-dep, angp
mult[π] mult[charged] (neutrals) 4.2 - 10 Baatar 88 cor, mass, mult, p, pt	$2p 0\pi^+ X$ 4.2 - 10 Armutlijsky 87D angp, cs, mass, p	$^{16}O p$ 0.6444 Glover 85B angp, cs, pol 1.696 Alkhazov 85B angp
p mult[charged] (neutrals) 4.2 - 10 Baatar 89 angp, mass, mult, pt	$p \Lambda \pi^+ X$ 10 Armutlijsky 88 mult	p Fl
mult[p] mult[charged] (neutrals) 4.2 - 10 Baatar 88 cor, mass, mult, p, pt	$p \Lambda \pi^- X$ 10 Armutlijsky 88 angp, mult, p	$p X$ 7.5 Bayukov 85D angp, p
$\mu^- \pi^+ \gamma X$ 530 De 89 mass	$p \Lambda \pi X$ 10 Armutlijsky 88 mult	πX 7.5 Bayukov 85D angp, p
$3\pi^0 X$ 10 Agakishiev 87B cor	$2p K_S X$ 10 Armutlijsky 88 mult	p ¹⁹Fl
$2\pi^0 \pi X$ 10 Agakishiev 87B cor	$3p X$ 7.5 Vlasov 88 ang, angp, cor	πX 1.696 Baturin 87 a-dep, angp
$2\pi^+ \pi^0 X$ 10 Agakishiev 87B cor	$2p \Lambda X$ 10 Armutlijsky 87 ang, angp, cor	$^{16}O \cdot ^4He$ 0.0398 Savage 88C 0.057 Bini 89B cs
$\pi^0 2\pi^- X$ 10 Agakishiev 87B cor	deuteron $2p X$ 7.5 Vlasov 88 ang, angp, cor	p ²⁰Ne
$2\pi^+ \pi X$ 10 Agakishiev 87B cor	2deuteron $p X$ 7.5 Vlasov 88 ang, angp, cor	$p X$ 300 Alimov 89 angp, cs, mult, p
$2\pi^- \pi X$ 10 Agakishiev 87B cor	$p \pi^\pm$ hadron ⁺ X 10 Armutlijsky 85B angp, mult, p, pt	$\Delta(1232 F_{33})^{++} X$ 300 Alimov 88 angp, cs
$K_S \pi^+ \pi X$ 10 Armutlijsky 88 mult	$p \pi^\pm$ hadron ⁻ X 10 Armutlijsky 85B pt	$\Delta(1232 F_{33})^0 X$ 300 Alimov 88 angp, cs
$K_S \pi^- \pi X$ 10 Armutlijsky 88 angp, mult, p	$2p$ hadron ⁺ X 10 Armutlijsky 85B angp, mult, p, pt	$N(1440 B)^0 X$ 300 Alimov 88 angp, cs
p charged ⁺ charged ⁻ X 4.2 - 10 Agakishiev 88 p	$2p$ hadron ⁻ X 10 Armutlijsky 85B pt	π^- mult[π^-] X 300 Aliev 89 angp, cor, mult
n charged ⁺ charged ⁻ X 4.2 - 10 Agakishiev 88 p	$2p$ fragt (neutrals) 3.88 Nagae 87 angp, mass 6 - 10 Heppelmann 89 angp	$p \pi^+ X$ 300 Alimov 89 angp, mult, p
$p 2\pi^0 X$ 10 Agakishiev 87B cor	$2p 2\pi^+ X$ 4.2 - 10 Armutlijsky 87D angp, cs, mass, p	$p \pi^- X$ 300 Alimov 89 angp, mult, p
$p \pi^+ \pi^\pm X$ 10 Armutlijsky 85B mult	$3p (p's) X$ 10 Lyubimov 88 col	$2p X$ 300 Alimov 89 Zielinsky 88 cs, mass
$p \pi^- \pi^\pm X$ 10 Armutlijsky 85B angp, mult, p	$2p \pi^+$ fragt (neutrals) 3.88 Nagae 87 angp, mass	shower mult[shower] X 300 Aliev 89 angp, cor, mult
$p 2\pi^+ X$ 10 Agakishiev 87B cor	$2p \pi^-$ fragt (neutrals) 3.88 Nagae 87 angp, mass	$2p 0\pi^\pm X$ 300 Alimov 89 mass
$p 2\pi^- X$ 10 Agakishiev 87B cor	p ¹³C	$2p$ mult[π^\pm] X 300 Alimov 89 mass
$\Lambda \pi^+ \pi X$ 10 Armutlijsky 88 mult	$^{14}Nit'$ 0.0573 Savage 88C -	$2p (p's) X$ 300 Allaberdin 87 angp, cor
$\Lambda \pi^- \pi X$ 10 Armutlijsky 88 angp, mult, p	$Nit' \gamma$ 0.0573 Savage 86B -	p Ne
$p K_S \pi^+ X$ 10 Armutlijsky 88 mult	$^{13}C p$ 1.696 Alkhazov 85B angp	γX 28 Artykov 90 mult 300 Alimov 89B pt
$p K_S \pi^- X$ 10 Armutlijsky 88 angp, mult, p	$^{13}Nit n$ 0.5708 Goodman 85 angp, pol	$\pi^0 X$ 300 Artykov 86 cs, mult Azimov 85E cs
$p K_S \pi X$ 10 Armutlijsky 88 mult	p ¹⁴Nit	mult[π^0] X 300 Azimov 85E mult
$2p \pi^0 X$ 10 Agakishiev 87B cor Armutlijsky 87 mult, p	$\pi^- X$ 21 Bajramov 89 p	$p X$ 300 Alimov 85 angp, mult
$2p \pi^\pm X$ 10 Armutlijsky 85B mult	p Nit	$n X$ 300 Azimov 85F angp, mult, p
$2p \pi^+ X$ 3.9 Nakai 89 a-dep, angp 10 Armutlijsky 85B mult	$Nit p$ 1.696 Alkhazov 85B angp	γ mult[charged ⁻] X 28 Fredriksson 87 300 Alimov 89B cor, mult, p
$2p \pi^- X$ 3.9 Nakai 89 a-dep, angp 10 Armutlijsky 85B angp, mult, p	p ¹⁵Nit	
	$^{15}O n$ 0.5708 Goodman 85 angp, pol	

p Ne $\rightarrow \pi^0$ charged⁻ Xp Al \rightarrow mult[gray] X

p Ne			p Mg		p Al
π^0 charged ⁻ X			mult[gray] charged ⁻ X		K^+ X
300 Artykov 86	mult	200 Brick 90 cor. mult. p			10.1 Sibirtsev 88
$p \pi^0$ X		200 Brick 89			a-dep, angp
300 Artykov 86	mult		p mult[p] X		Vorontsov 88B
$2p$ X			100 Toothacker 87	p, pt	10.14 Boyarinov 89
300 Azimov 84C	mass		n mult[p] X		a-dep, angp
mult[p] mult[π^0] X			100 Toothacker 87	p, pt	70 Boyarinov 88B
300 Azimov 85E	mult		mult[gray] shower X		Abramov 84E a-dep, pt
γ mult[gray] X			200 Brick 90 cor. mult. p		K^- X
300 Artykov 90 mult, p, pt		200 Brick 89	mult[gray] charged ⁺ charged ⁻ X		10.1 Vorontsov 88B
300 Alimov 89B	mult, p		200 Brick 89	mult	10.14 Boyarinov 89
$3p$ X			$p \text{ } ^{25}\text{Mg}$		a-dep, angp
300 Azimov 86	mass		n X		28.4 Boyarinov 88C
γ mult[gray] mult[charged ⁻] X			1.696 Baturin 87	a-dep, angp	70 Snow 85
300 Alimov 89B	mult		$p \text{ } ^{26}\text{Mg}$		70 Abramov 84E
$4p$ X			n X		1.696 Baturin 85
300 Azimov 86	mass		1.696 Baturin 87	a-dep, angp	a-dep, p
300 Azimov 84B	mass		$p \text{ } ^{26}\text{Mg}$		Belostotsky 84
p Na			n X		2.5 - 9.2 Sazonov 86
p X			$p \text{ } ^{27}\text{Al}$		3.9 Nakai 89
1.463 Miake 84	angp		X		a-dep, angp
$2p$ X			800 Gomez 86	a-dep, cs	4 Tokushuku 90
1.463 Miake 84	angp		inelastic		Enyo 85
deuteron p X			1.26 - 2.5 Kuzichev 89	a-dep, cs	4.94 - 10.14 Boyarinov 86
1.463 Miake 84	angp		charged X		6.37 - 8.08 Arefiev 85
p ^{24}Mg			220 - 1500 Dzhaoshvili 90	mult, p	7.5 Bayukov 85F
n X			> 10 ³ Berdzenishvili 85	mult, p	8.9 Averchikov 87
1.696 Baturin 87	a-dep, angp		mult[charged] X		10.1 Safronov 88B
(blacks) mult[gray] mult[shower]			360 Bailly 88	mult, p	angp
(neutrals)			360 Bailly 87D	mult	Vorontsov 88B
100 Biswas 86	cs		mult[charged ⁻] X		a-dep, angp
p Mg			360 Bailly 87D	mult	a-dep, angp
inelastic			neutral X		10.14 Ergakov 86
200 Abe 88	cs		14.5 Remsberg 88	p	7.5 Boyarinov 87B
charged X			220 - 1500 Tannenbaum 88	et, p	8.9 Abramov 84E
200 Brick 89	mult		Dzhaoshvili 90	p	800 Gomez 86B
charged ⁻ X			mult[charged] (neutrals)		4.542 - 10.09 Lepikhin 87
200 Brick 90 cor, mult, p			400 Miettinen 88		8.9 Averchikov 87
200 Brick 89	mult		800 a-dep, angp, col. et, mult, p		10.1 Voronin 88
mult[charged] X			Gomez 86 col. et		70 Abramov 84E
200 Brick 89	mult		γ X		a-dep, pt
mult[charged ⁻] X			450.9 Schukraft 88B	angp, pt	n X
200 Brick 89	mult		μ^+ X		1.696 Baturin 85
π^\pm X			300 Cobbaert 88	a-dep	7.5 Bayukov 85F
200 Abe 88	mult		μ^- X		$\Delta(1232 P_{33})^0$ X
π^- X			300 Cobbaert 88	a-dep	3.88 Nagae 87
200 Abe 88	mult		π^+ X		Λ X
p X			4.94 - 10.14 Boyarinov 87	angp, p	3 - 7.5 Vorobiev 89C
100 Toothacker 87	mult, p		6.37 - 8.08 Arefiev 85	a-dep, angp	deuteron X
200 Abe 88	p		10.1 Sibirtsev 88	angp	2.03 - 10.1 Ergakov 86
\bar{p} X			Vorontsov 88B	a-dep, angp	2.5 - 9.2 Sazonov 88
100 Toothacker 87	mult, p		Belyaev 89B	angp	4 Tokushuku 90
grey X			a-dep, angp		6.37 - 8.08 Arefiev 85
200 Abe 88	mult		25 - 65 Belyaev 88D	a-dep, angp	Sazonov 88B
mult[shower] X			70 Abramov 84E	a-dep, pt	10.1 Safronov 88B
200 Brick 89	mult		π^- X		10.14 Boyarinov 88
shower X			4 Enyo 85	p	70 Barkov 85C
200 Brick 90 cor, mult, p			8.9 - 10.14 Boyarinov 87	angp, p	^3He X
200 Brick 89	mult		10.1 Averchikov 87	a-dep, angp	10.1 Safronov 88B
2charged X			10.1 Vorontsov 88B	a-dep, angp	6.37 - 8.08 Arefiev 85
200 Brick 90	cor, mult, p		10.14 Boyarinov 87B	angp	10.1 Safronov 88B
$p \pi^\pm$ X			14.97 - 64.99 Belyaev 89B	a-dep, angp	70 Ergakov 86
100 Toothacker 87	mult, p		K^+ X		10.14 Boyarinov 88
p mult[π^\pm] X			1.693 Kopteyev 88	cs	70 Barkov 85C
100 Toothacker 87	p		Ahrosimov 85B	cs	^4He X
$2p$ X					10.1 Safronov 88B
100 Toothacker 87	mult				70 Barkov 85C

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

p Al \rightarrow mult[hadron] X p Ti \rightarrow ^3H p X

p Al			p Si			p Ca		
mult[hadron] X 800	Tannenbaum 89	et, p	D^0 X 200	Barlag 88 Barlag 87	cs, p, pt	$\psi(2S)$ X 800	Mishra 90	a-dep
mult[shower] X 360	Bailly 87D	mult	D^+ X 200	Barlag 88 Barlag 87	cs, p, pt	$T(1S)$ X 800	Mishra 90	a-dep
shower X 360	Bailly 87D	p	D^- X 200	Barlag 88 Barlag 87	cs, p, pt	p X 0.5	Rees 86	pol
π^- mult[charged] X 4	Enyo 85	mult, p	D_S^- X 200	Barlag 88	cs, p, pt	$\mu^- \mu^+$ X 800	Mishra 90	a-dep, p, pt
$\mu^- \mu^+$ X 300	Cobbaert 88 Cobbaert 88B	a-dep	D_S^+ X 200	Barlag 88	cs, p, pt	p ^{44}Ca		
π^+ π^- X 3.9	Nakai 89	a-dep, mass	$D^*(2010)^+$ X 200	Barlag 88	cs, p, pt	n X 1.696	Baturin 87	a-dep, angp
$J/\psi(1S) \gamma$ X 530	De 89	a-dep, cs, mass, p	$D^*(2010)^-$ X 200	Barlag 88	cs, p, pt	p Ti		
p mult[charged] X 4	Enyo 85	mult, p	$K^+ K^- 2\pi^+ 2\pi^-$ X 200	Barlag 88 Barlag 88	cs, p, pt mass	ν_e X 28.3	Krizmanic 89 Lile 89	flux flux
$2p$ X 6 - 12 7.5	Carroll 88 Bayukov 85	angp cor	p KK			$\bar{\nu}_e$ X 28.3	Krizmanic 89 Lile 89	flux flux
(jets) jet X 400	Miettinen 88	a-dep, angp, et, p	p X 1.463	Miake 84	angp	ν_μ X 28.3	Krizmanic 89 Lile 89	flux flux
grey shower X 360	Bailly 87D	cor, mult	$2p$ X 1.463	Miake 84	angp	$\bar{\nu}_\mu$ X 28.3	Krizmanic 89 Lile 89	flux flux
mult[grey] shower X 360	Bailly 87D	p	deuteron p X 1.463	Miake 84	angp	π^+ X 14.97 - 64.99	Belyaev 89B	a-dep, angp
shower hadron X 360	Bailly 87D	cor, mult, p	p Cl			25 - 65	Belyaev 89D	a-dep, angp
2hadron^+ X 800	Streets 89	a-dep, ang, mass, pt	$\chi(\text{unspec})$ X 530	De 89	-	π^- X 14.97 - 64.99	Belyaev 89B	a-dep, angp
2hadron^- X 800	Streets 89	a-dep, ang, mass, pt	p Ar			K^+ X 1.693	Koptyev 88 Abrosimov 85B	cs cs
hadron $^+$ hadron $-$ X 800	Streets 89	a-dep, ang, mass, pt	charged $-$ X 200	Klar 84	mult, p, pt	p X 7.5	Bayukov 85F	a-dep, p
$\mu^- \mu^+ \gamma$ X 530	De 89	mass	mult[charged] X 200	Dengler 86C	angp, mult, p	n X 7.5	Bayukov 85F	a-dep, p
$2p \pi^-$ X 3.9	Nakai 89	a-dep, angp	mult[charged $-$] X 200	Dengler 86C	angp, mult, p	$2\pi^+$ X 7.5	Vlasov 90	a-dep, ang, angp, cor, p
$2p$ fragt (neutrals) 6 - 10	Heppelmann 89	angp	2charged X 200	Derado 88	a-dep, cor, mult, p	$p \pi^+$ X 7.5	Vlasov 90	a-dep, ang, angp, cor, p
$2p \pi^+$ fragt (neutrals) 3.88	Nagae 87	angp, mass	mult[p] 2charged X 200	Derado 88	a-dep, cor, mult, p	$2p$ X 3 - 7.5 7.5	Bayukov 86 Bayukov 89	ang ang, a-dep, p
$2p \pi^-$ fragt (neutrals) 3.88	Nagae 87	angp, mass	p ^{40}Ar			$p n$ X 7.5	Vlasov 89	a-dep, ang, cor, p
p ^{27}Al			dibaryon X 1.696	Ermakov 86 Ermakov 86B	- -	deuteron π^+ X 7.5	Vlasov 90	a-dep, ang, angp, cor, p
inelastic 1.35 - 3.75	Gachurin 85	cs	$2p$ X 1.696	Ermakov 86	ang, mass	deuteron p X 7.5	Bayukov 89C	ang, angp, p
^{24}Na X 4.491	Damdinsuren 87	cs	$2p \pi^+$ X 1.696	Ermakov 86B	mass	deuteron n X 7.5	Vlasov 89	a-dep, ang, cor, p
p X 0.097 - 0.4207 0.3467 - 1.166	Machner 85 Machner 85	p angp	p ^{40}Ca			deuteron π^+ X 7.5	Vlasov 90	a-dep, ang, angp, cor, p
n X 0.097 - 0.4207 1.696	Machner 85 Baturin 87	a-dep, angp	inelastic 1.09	Seth 85	asym	deuteron p X 7.5	Bayukov 89C	ang, angp, p
deuteron X 0.3467 - 1.166	Machner 85	angp	n X 1.696	Baturin 87	a-dep, angp	^{40}Ca p 0.6444 - 0.9543	Vlasov 89B Vlasov 86	ang, angp, p ang, angp, p
^{24}Ne $3p n$ 0.2941 - 0.6444	Michel 85	cs	^{40}Ca p 1.09	Lee 88	angp	deuteron n X 7.5	Vlasov 89	a-dep, ang, cor, p
^{40}Ca p 1.09	Bereznoj 85	-	Ca^+ p 1.09	Bereznoj 85	-	^3H p X 7.5	Bayukov 89C	ang, angp, p
p Si			p Ca			$J/\psi(1S)$ X 800	Mishra 90	a-dep, p, pt
D^0 X 200	Barlag 88 Barlag 87	cs, p, pt						

p Ti → 2deuteron X

p ⁵⁹Co → ²⁸Mg X

<p>p Ti</p> <p>2deuteron X 7.5 Bayukov 89C ang, angp, p Vlasov 89B ang, p Vlasov 86 ang, angp, p</p> <p>3p X 7.5 Vlasov 88 ang, angp, cor</p> <p>deuteron 2p X 7.5 Vlasov 88 ang, angp, cor</p> <p>2deuteron p X 7.5 Vlasov 88 ang, angp, cor</p>	<p>p ⁵⁵Mn</p> <p>⁵¹Cr X 4.491 Kozma 88B cs</p> <p>⁵²Mn X 4.491 Kozma 88B cs</p> <p>⁵²Fe X 4.491 Kozma 88B cs</p> <p>⁵⁴Mn X 4.491 Kozma 88B cs</p> <p>frag X 4.491 Kozma 88B cs</p> <p>nucleus nucleon (nucleons) 0.2941 - 0.6444 Michel 85 cs</p> <p>⁵²Mn p 3n 0.2941 - 0.6444 Michel 85 cs</p> <p>⁵¹Cr 2p 3n 0.2941 - 0.6444 Michel 85 cs</p> <p>⁴⁸Cr 2p 6n 0.2941 - 0.6444 Michel 85 cs</p> <p>⁴⁸Sc 5p 5n 0.2941 - 0.6444 Michel 85 cs</p>	<p>p ⁵⁸Ni</p> <p>p X 0.4207 Machner 85 p 0.5513 Segel 85 cs, p 7.5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p</p> <p>n X 7.5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p</p> <p>deuteron X 7.5 Gavrilov 85B a-dep, angp, p</p> <p>³H X 0.5513 Segel 85 cs, p</p>
<p>p ⁴⁸Ca</p> <p>inelastic 1.09 Seth 85 asym</p> <p>⁴⁸Sc n 0.5211 - 0.5708 Anderson 85B angp, cs, p</p>		<p>p Ni</p> <p>²⁴Na X 4.491 Kozma 88B cs</p> <p>²⁸Mg X 4.491 Kozma 88B cs</p> <p>⁴²KK X 4.491 Kozma 88B cs</p> <p>⁴³KK X 4.491 Kozma 88B cs</p> <p>⁴³Sc X 4.491 Kozma 88B cs</p> <p>⁴⁴Sc X 4.491 Kozma 88B cs</p> <p>⁴⁶Sc X 4.491 Kozma 88B cs</p> <p>⁴⁷Sc X 4.491 Kozma 88B cs</p> <p>⁴⁸Cr X 4.491 Kozma 88B cs</p> <p>⁴⁸Sc X 4.491 Kozma 88B cs</p> <p>⁴⁸Va X 4.491 Kozma 88B cs</p> <p>⁵¹Cr X 4.491 Kozma 88B cs</p> <p>⁵²Mn X 4.491 Kozma 88B cs</p> <p>⁵²Fe X 4.491 Kozma 88B cs</p> <p>⁵⁴Mn X 4.491 Kozma 88B cs</p> <p>⁵⁵Co X 4.491 Kozma 88B cs</p> <p>⁵⁶Co X 4.491 Kozma 88B cs</p> <p>⁵⁶Mn X 4.491 Kozma 88B cs</p> <p>⁵⁶Ni X 4.491 Kozma 88B cs</p> <p>⁵⁷Co X 4.491 Kozma 88B cs</p> <p>⁵⁷Ni X 4.491 Kozma 88B cs</p>
<p>p Va</p> <p>⁵¹Cr (n's) 0.2941 - 0.6444 Michel 85 cs</p> <p>⁴⁸Va p (n's) 0.2941 - 0.6444 Michel 85 cs</p> <p>nucleus nucleon (nucleons) 0.2941 - 0.6444 Michel 85 cs</p> <p>⁴⁶Sc 3p (n's) 0.2941 - 0.6444 Michel 85 cs</p> <p>⁴⁷Sc 3p (n's) 0.2941 - 0.6444 Michel 85 cs</p> <p>⁴³KK 5p (n's) 0.2941 - 0.6444 Michel 85 cs</p>	<p>p Fe</p> <p>inelastic 1.26 - 2.5 Kuzichev 89 a-dep, cs (233.9 - 1021) Avakyan 89C a-dep, cs (233.9 - 723.1) Avakyan 85D cs Avakyan 85E cs</p> <p>μ⁺ X 70 Belikov 89 cs 300 Cobbaert 88 a-dep</p> <p>μ⁻ X 70 Belikov 89 cs 300 Cobbaert 88 a-dep</p> <p>π⁰ X (233.9 - 723.1) Avakyan 85D cs</p> <p>J/ψ(1S) X 800 Mishra 90 a-dep, p, pt</p> <p>ψ(2S) X 800 Mishra 90 a-dep</p> <p>Υ(1S) X 800 Mishra 90 a-dep</p> <p>p X 7.5 Bayukov 85F a-dep, p</p> <p>n X 7.5 Bayukov 85F a-dep, p</p> <p>charm X 300 Cobbaert 88 a-dep, cs</p> <p>shower X 300 Muraki 84 -</p> <p>μ⁻ μ⁺ X 70 Sviridov 88 angp 300 Cobbaert 88 a-dep 300 Cobbaert 88B a-dep, mass, p</p> <p>800 Mishra 90 a-dep, p, pt</p> <p>charm-meson charmed-meson X 70 Sviridov 88 -</p> <p>Λ_c⁺ charmed-meson X 70 Sviridov 88 -</p> <p>charm charm X 70 Sviridov 88 -</p> <p>2hadron⁺ X 800 Streets 89 a-dep, ang, mass, pt</p> <p>2hadron⁻ X 800 Streets 89 a-dep, ang, mass, pt</p> <p>hadron⁺ hadron⁻ X 800 Streets 89 a-dep, ang, mass, pt</p>	<p>⁴⁸Sc X 4.491 Kozma 88B cs</p> <p>⁴⁶Sc X 4.491 Kozma 88B cs</p> <p>⁴⁷Sc X 4.491 Kozma 88B cs</p> <p>⁴⁸Cr X 4.491 Kozma 88B cs</p> <p>⁴⁸Sc X 4.491 Kozma 88B cs</p> <p>⁴⁸Va X 4.491 Kozma 88B cs</p> <p>⁵¹Cr X 4.491 Kozma 88B cs</p> <p>⁵²Mn X 4.491 Kozma 88B cs</p> <p>⁵²Fe X 4.491 Kozma 88B cs</p> <p>⁵⁴Mn X 4.491 Kozma 88B cs</p> <p>⁵⁵Co X 4.491 Kozma 88B cs</p> <p>⁵⁶Co X 4.491 Kozma 88B cs</p> <p>⁵⁶Mn X 4.491 Kozma 88B cs</p> <p>⁵⁶Ni X 4.491 Kozma 88B cs</p> <p>⁵⁷Co X 4.491 Kozma 88B cs</p> <p>⁵⁷Ni X 4.491 Kozma 88B cs</p> <p>p X 7.5 Bayukov 85D angp, p</p> <p>n X 7.5 Bayukov 85D angp, p</p> <p>frag X 4.491 Kozma 88B cs</p> <p>fragt X 9 Kozma 88B cs</p>
<p>p ⁵⁴Fe</p> <p>Fe⁺ deuteron 0.4938 Dickey 85 pol</p> <p>⁵³Fe deuteron γ 0.4938 Dickey 85 pol</p>		
<p>p ⁵⁵Mn</p> <p>²⁴Na X 4.491 Kozma 90B angp, p Kozma 88B cs</p> <p>²⁸Mg X 4.491 Kozma 90B angp, p Kozma 88B cs</p> <p>⁴²KK X 4.491 Kozma 88B cs</p> <p>⁴³KK X 4.491 Kozma 88B cs</p> <p>⁴³Sc X 4.491 Kozma 88B cs</p> <p>⁴⁴Sc X 4.491 Kozma 88B cs</p> <p>⁴⁶Sc X 4.491 Kozma 88B cs</p> <p>⁴⁷Sc X 4.491 Kozma 88B cs</p> <p>⁴⁸Cr X 4.491 Kozma 88B cs</p> <p>⁴⁸Sc X 4.491 Kozma 88B cs</p> <p>⁴⁸Va X 4.491 Kozma 88B cs</p>	<p>charm⁺ X 300 Streets 89 a-dep, ang, mass, pt</p> <p>hadron⁺ hadron⁻ X 800 Streets 89 a-dep, ang, mass, pt</p>	<p>p ⁵⁹Co</p> <p>²⁴Na X 4.491 Kozma 90B angp, p Kozma 88B cs</p> <p>²⁸Mg X 4.491 Kozma 90B angp, p Kozma 88B cs</p>

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p \text{ } ^{59}\text{Co} \rightarrow ^{42}\text{KK X}$ $p \text{ Cu} \rightarrow \text{heavy-lepton}^0 \text{ X}$

$p \text{ } ^{59}\text{Co}$			$p \text{ Cu}$			$p \text{ Cu}$		
$^{42}\text{KK X}$ 4.491	Kozma 88B	cs	neutral X 14.5	Remsberg 88	p	mult[charged] (neutrals) 400	Miettinen 88	
$^{43}\text{KK X}$ 4.491	Kozma 88B	cs	220 - 1500	Tannenbaum 88	et, p	a-dep, angp, col, et, mult, p	Gomez 86	col, et
$^{43}\text{Sc X}$ 4.491	Kozma 88B	cs	$^{24}\text{Na X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\nu \text{ X}$ 400	Talchzadeh 87	-
$^{44}\text{Sc X}$ 4.491	Kozma 88B	cs	$^{26}\text{Mg X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\bar{\nu} \text{ X}$ 400	Grassler 86	-
$^{46}\text{Sc X}$ 4.491	Kozma 88B	cs	$^{42}\text{KK X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\nu_e \text{ X}$ 400	Duffy 88	a-dep, cs, p, pt
$^{47}\text{Sc X}$ 4.491	Kozma 88B	cs	$^{43}\text{KK X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\bar{\nu}_e \text{ X}$ 400	Duffy 85	a-dep, cs, p
$^{48}\text{Cr X}$ 4.491	Kozma 88B	cs	$^{43}\text{Sc X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\nu_\mu \text{ X}$ 400	Duffy 88	a-dep, cs, p, pt
$^{48}\text{Sc X}$ 4.491	Kozma 88B	cs	$^{44}\text{Sc X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\bar{\nu}_\mu \text{ X}$ 400	Duffy 85	a-dep, cs, p, pt
$^{48}\text{Va X}$ 4.491	Kozma 88B	cs	$^{46}\text{Sc X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\nu_e \text{ X} + \bar{\nu}_e \text{ X}$ 400	Dorenbosch 87	angp, p
$^{51}\text{Cr X}$ 4.491	Kozma 88B	cs	$^{47}\text{Sc X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\nu_\mu \text{ X} + \bar{\nu}_\mu \text{ X}$ 400	Dorenbosch 87	angp, p
$^{52}\text{Mn X}$ 4.491	Kozma 88B	cs	$^{48}\text{Cr X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\pi^0 \text{ X}$ 400	Dorenbosch 87	cs
$^{52}\text{Fe X}$ 4.491	Kozma 88B	cs	$^{48}\text{Sc X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\pi^\pm \text{ X}$ 0.8474 - 0.9668	Akimov 89	angp
$^{54}\text{Mn X}$ 4.491	Kozma 88B	cs	$^{48}\text{Va X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\pi^+ \text{ X}$ 0.8459 - 0.9189	Haysak 85	angp
$^{55}\text{Co X}$ 4.491	Kozma 88B	cs	$^{51}\text{Cr X}$ 4.491 9	Kozma 88B Kozma 86	cs	1 - 9	Bayukov 85E	angp
$^{56}\text{Co X}$ 4.491	Kozma 88B	cs	$^{52}\text{Mn X}$ 4.491 9	Kozma 88B Kozma 86	cs	4.94 - 10.14	Boyarinov 87	angp, p
$^{56}\text{Mn X}$ 4.491	Kozma 88B	cs	$^{52}\text{Fe X}$ 4.491 9	Kozma 88B Kozma 86	cs	6.37 - 8.08	Arefiev 85	a-dep, angp
$^{57}\text{Co X}$ 4.491	Kozma 88B	cs	$^{53}\text{Fe X}$ 4.491 9	Kozma 88B	cs	10.1	Sibirsev 88	a-dep, angp
$^{58}\text{Co X}$ 4.491	Kozma 88B	cs	$^{54}\text{Mn X}$ 4.491 9	Kozma 88B Kozma 86	cs	10.14	Vorontsov 88B	a-dep, angp
frag X 4.491	Kozma 88B	cs	$^{56}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	70	Boyarinov 87B	angp
nucleus nucleon (nucleons) 0.2941 - 0.6444	Michel 85	cs	$^{56}\text{Mn X}$ 4.491 9	Kozma 88B Kozma 86	cs	400	Abramov 84E	a-dep, pt
$^{56}\text{Co } p \ n$ 0.2941 - 0.6444	Michel 85	cs	$^{56}\text{Ni X}$ 4.491 9	Kozma 88B Kozma 86	cs	10.1	Brown 86	a-dep, pt
$^{52}\text{Mn } 3p \ 5n$ 0.2941 - 0.6444	Michel 85	cs	$^{57}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	10.14	Hsiung 85	a-dep, pt
$^{51}\text{Cr } 4p \ 5n$ 0.2941 - 0.6444	Michel 85	cs	$^{58}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	400	Thron 84	a-dep, pt
$^{48}\text{Va } 5p \ 7n$ 0.2941 - 0.6444	Michel 85	cs	$^{58}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\pi^- \text{ X}$ 1 - 9	Bayukov 85E	a-dep, angp, p
$^{46}\text{Sc } 7p \ 7n$ 0.2941 - 0.6444	Michel 85	cs	$^{56}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	4.94 - 10.14	Boyarinov 87	angp, p
	Michel 85	cs	$^{56}\text{Mn X}$ 4.491 9	Kozma 88B Kozma 86	cs	8.9	Averchikov 87	a-dep, angp
	Michel 85	cs	$^{56}\text{Ni X}$ 4.491 9	Kozma 88B Kozma 86	cs	10.1	Vorontsov 88B	a-dep, angp
	Michel 85	cs	$^{57}\text{Ni X}$ 4.491 9	Kozma 88B Kozma 86	cs	10.14	Boyarinov 87B	angp
	Michel 85	cs	$^{57}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	70	Abramov 84E	a-dep, pt
	Michel 85	cs	$^{58}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	400	Thron 84	a-dep, pt
	Michel 85	cs	$^{58}\text{Ni X}$ 4.491 9	Kozma 88B Kozma 86	cs	$J/\psi(1S) \text{ X}$ 200.9	Sonderegger 89	cs, et
	Michel 85	cs	$^{58}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\Upsilon(1S) \text{ X}$ 800	Brown 86	p
	Michel 85	cs	$^{58}\text{Ni X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\Upsilon(2S) \text{ X}$ 800	Brown 86	p
	Michel 85	cs	$^{58}\text{Co X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\Upsilon(3S) \text{ X}$ 800	Brown 86	p
	Michel 85	cs	$^{59}\text{Fe X}$ 4.491 9	Kozma 88B Kozma 86	cs	$\chi(\text{unspc}) \text{ X}$ 530	De 89	-
	Michel 85	cs	$^{60}\text{Co X}$ 4.491 9	Kozma 88B	cs	heavy-lepton X 400	Duffy 88	cs
	Michel 85	cs			cs	heavy-lepton ⁰ X 400	Dorenbosch 86B	-

$p \text{ Cu} \rightarrow 2\text{hadron}^+ \text{ X}$ $p \text{ Ag} \rightarrow p \text{ mult}[\pi^\pm] \text{ X}$

p Cu				p ⁸⁰Yt			p Ag		
2hadron⁺ X 400	Brown 86	mass		$\pi^+ \text{ X}$ 0.6084 - 0.6462	Bimbob 85	angp, cs	Sc X 4.491	Kozma 90	cs
hadron⁺ hadron⁻ X 400	Hsiung 85	a-dep, mass, pt		$\pi^- \text{ X}$ 0.6084 - 0.6462	Bimbob 85	angp, cs	Mn X 4.491	Kozma 90	cs
2jet X 800	Stewart 90	a-dep, angp, col, et		p ⁹⁰Zr			⁵⁵Co X 4.491	Kozma 90	cs
$\mu^- \mu^+ \gamma \text{ X}$ 530	De 89	mass		p X 0.4207	Machner 85	p	Fe X 4.491	Kozma 90	cs
p 2π^- X 400	Trost 89	angp, mass		⁹⁰Zr p 0.6444 - 0.9543	Lee 88	angp	⁵⁷Co X 4.491	Kozma 90	cs
2p π^+ X 3.9	Nakai 89	a-dep, angp		p Zr			Zn X 4.491	Kozma 90	cs
2p π^- X 3.9	Nakai 89	a-dep, angp		K⁺ X 1.693	Koptyev 88 Abrosimov 85B	cs	Ga X 4.491	Kozma 90	cs
2p fragt (neutrals) 6 - 10	Heppelmann 89	angp		p Nb			As X 4.491	Kozma 90	cs
2p π^+ fragt (neutrals) 3.88	Nagae 87	angp, mass		p X 7.5	Bayukov 85F	a-dep, p	Se X 4.491	Kozma 90	cs
2p π^- fragt (neutrals) 3.88	Nagae 87	angp, mass		n X 7.5	Bayukov 85F	a-dep, p	Br X 4.491	Kozma 90	cs
p ⁶⁴Ni				p Mo			Kr X 4.491	Kozma 90	cs
p X 0.5513 7.5	Segel 85 Bayukov 85D Gavrilov 85B	cs, p angp, p a-dep, angp, p		$\pi^+ \text{ X}$ 14.97 - 64.99	Belyaev 89B	a-dep, angp p	Yt X 4.491	Kozma 90	cs
n X 7.5	Bayukov 85D Gavrilov 85B	angp, p a-dep, angp, p		17.5 - 63	Belyaev 85		Zr X 4.491	Kozma 90	cs
deuteron X 7.5	Gavrilov 85B	a-dep, angp, p		$\pi^- \text{ X}$ 14.97 - 64.99	Belyaev 89B	a-dep, angp p	Nb X 4.491	Kozma 90	cs
p ⁶⁴Cu				17.5 - 63	Belyaev 85	a-dep, angp p	Mo X 4.491	Kozma 90	cs
²⁴Na X 4.491	Kozma 90B	angp, p		25 - 65	Belyaev 85 Belyaev 88D	a-dep, angp	Tc X 4.491	Kozma 90	cs
²⁸Mg X 4.491	Kozma 90B	angp, p		p X 17.98 - 63.99	Belyaev 89C	angp, p, pol	$\pi^\pm \text{ X}$ 200	Abe 88	mult
p ⁶⁵Zn				deuteron X 17.98 - 63.99	Belyaev 89C	angp, p, pol	$\pi^- \text{ X}$ 200	Abe 88	mult
inelastic 1.35 - 3.75	Gachurin 85	cs		p ⁸⁶Mo			p X 0.6266 - 1.064	Green 86B Miake 84 Toothacker 87	angp mult, p, p cs, p p, pt
p Zn				⁹⁸Tc n 0.4895	Rapaport 85	cs	1.463	Green 86B	angp
p X 7.5	Bayukov 85D	angp, p		p Ag			100	Miake 84	angp
n X 7.5	Bayukov 85D	angp, p		inelastic 4.491 200	Kozma 90 Abe 88	cs	120	Toothacker 87	mult, p, p
p ⁷¹Ga				charged X 200	Brick 89	mult	200	Bailey 85B	mult, p, p
⁷¹Ce n 0.4895 - 0.6444	Krofcheck 85	angp		charged⁻ X 200	Brick 90 Brick 89	cor, mult, p mult	200	Abe 88	cs, p
p ⁸¹Br				mult[charged] X 200	Brick 89	mult	200.9	Schmidt 88	p, pt
⁸¹Kr n 0.6266 - 0.6444	Krofcheck 87	angp		mult[charged⁻] X 200	Brick 89	mult	p X 100	Toothacker 87	mult, p
p Kr				Ru X 4.491	Kozma 90	ca	frag X 5.762	Shibata 86	cs
frag X 80.93 - 350.9	Shibata 86	cs		Rh X 4.491	Kozma 90	cs	fragt X 0.6266 - 1.064	Green 86B Roepke 85 Hufner 85	angp mass, p angp, p
p ⁸⁰Yt				Pd X 4.491	Kozma 90	cs	1.696		
²⁴Na X 4.491	Kozma 90B	angp, p		Ag⁺ X 4.491	Kozma 90	cs	4.9		
²⁸Mg X 4.491	Kozma 90B	angp, p		Na X 4.491	Kozma 90	cs	grey X 200	Abe 88	mult
				Mg X 4.491	Kozma 90	cs	mult[shower] X 200	Brick 89	mult
				KK X 4.491	Kozma 90	cs	shower X 200	Brick 90 Brick 89	cor, mult, p mult
							2charged X 200	Brick 90	cor, mult, p
							$\pi^\pm \text{ charged X}$ 1.696	Andronenko 86	ang, mult
							p charged X 1.696	Andronenko 86	ang, mult
							p $\pi^\pm \text{ X}$ 100	Toothacker 87	mult, p
							p mult[π^\pm] X 100	Toothacker 87	p

p Ag →deuteron charged X

p Tm →¹⁴⁹Tb X

<p>p Ag</p> <p>deuteron charged X 1.696 Andronenko 86 ang, mult</p> <p>2p X 1.09 Cebra 89 cor, p 1.463 Miake 84 angp 100 Toothacker 87 mult</p> <p>³H charged X 1.696 Andronenko 86 mult</p> <p>deuteron p X 1.09 Cebra 89 cor, p 1.463 Miake 84 angp</p> <p>2deuteron X 1.09 Cebra 89 cor, p</p> <p>⁴He p X 1.09 Cebra 89 cor, p</p> <p>²H X 1.09 Cebra 89 cor, p</p> <p>⁴He deuteron X 1.09 Cebra 89 cor, p</p> <p>mult[grey] charged⁻ X 200 Brick 90 cor, mult, p Brick 89 mult</p> <p>p mult[p] X 100 Toothacker 87 p, pt</p> <p>n mult[p] X 100 Toothacker 87 p, pt</p> <p>mult[grey] shower X 200 Brick 90 cor, mult, p Brick 89 mult</p> <p>mult[grey] charged⁺ charged⁻ X 200 Brick 89 mult</p> <p>2frag (frags) X 300 Bujak 85 cs, mass</p>	<p>p ¹¹⁵In</p> <p>¹¹⁶Sn n 0.4895 Rapaport 85 cs</p> <p>p ¹¹⁶Sn</p> <p>p X 0.5513 Segel 85 cs, p</p> <p>n X 1.696 Baturin 87 a-dep, angp</p> <p>deuteron X 0.5513 Segel 85 cs, p</p> <p>³He X 0.5513 Segel 85 cs, p</p> <p>³H X 0.5513 Segel 85 cs, p</p> <p>He X 0.5513 Segel 85 cs, p</p> <p>p Sn</p> <p>mult[charged] (neutrals) 400 Mietinen 88 a-dep, angp, col, et, mult, p</p> <p>π⁺ X 70 Abramov 84E a-dep, pt</p> <p>π⁻ X 70 Abramov 84E a-dep, pt</p> <p>K⁺ X 1.468 - 1.685 Kopteyev 88 cs 1.505 - 1.685 Abrosimov 85B cs 1.693 Kopteyev 88 cs 70 Abrosimov 85B cs 70 Abramov 84E a-dep, pt</p> <p>K⁻ X 70 Abramov 84E a-dep, pt</p> <p>p X 1.696 Baturin 85 a-dep, p 7.5 Bayukov 85D angp, p 7.5 Bayukov 85F a-dep, p 7.5 Abramov 84E a-dep, pt</p> <p>β X 70 Abramov 84E a-dep, pt</p> <p>n X 1.696 Baturin 85 a-dep, p 7.5 Bayukov 85D angp, p 7.5 Bayukov 85F a-dep, p</p> <p>(jets) jet X 400 Mietinen 88 a-dep, angp, et, p</p>	<p>p Xe</p> <p>charged⁻ X 200 Klar 84 mult, p, pt</p> <p>mult[charged] X 200 Dengler 86C angp, mult, p</p> <p>mult[charged⁻] X 200 Dengler 86C angp, mult, p</p> <p>Be X 1 - 19 Sangster 87 angp</p> <p>Nit X 1 - 19 Sangster 87 angp</p> <p>Ne X 1 - 19 Sangster 87 angp</p> <p>frag X 1 - 20 Mahi 88 angp, p 5.762 Shibata 85 cs</p> <p>mult[frag] X 30 - 300 Hufner 85 p</p> <p>2charged X 200 Derado 88 a-dep, cor, mult, p</p> <p>mult[p] 2charged X 200 Derado 88 a-dep, cor, mult, p</p>
<p>p ¹⁰⁸Ag</p> <p>²⁴Na X 4.491 Kozma 90B angp, p</p> <p>²⁸Mg X 4.491 Kozma 90B angp, p</p> <p>(blacks) mult[grey] mult[shower] (neutrals) 100 Biswas 86 cs</p>	<p>p ¹¹²Sn</p> <p>p X 7.5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p</p> <p>n X 7.5 Bayukov 85D angp, p Gavrilov 85B a-dep, angp, p</p> <p>deuteron X 7.5 Gavrilov 85B a-dep, angp, p</p> <p>p Cd</p> <p>inelastic 1.26 - 2.5 Kuzichev 89 a-dep, cs</p> <p>p X 7.5 Bayukov 85F a-dep, p</p> <p>n X 7.5 Bayukov 85F a-dep, p</p> <p>Λ X 3 - 7.5 Vorobiev 89C angp</p> <p>p In</p> <p>p X 7.5 Bayukov 85D angp, p</p> <p>n X 7.5 Bayukov 85D angp, p</p>	<p>p ¹³³Cs</p> <p>⁴²KK X 0.6444 Wagner 85 cs</p> <p>⁶⁸Ni X 0.6444 Wagner 85 cs</p> <p>⁶⁶Ni X 0.6444 Wagner 85 cs</p> <p>⁶⁷Cu X 0.6444 Wagner 85 cs</p> <p>⁷²Zn X 0.6444 Wagner 85 cs</p> <p>⁷⁷As X 0.6444 Wagner 85 cs</p> <p>frag X 0.6444 Wagner 85 cs</p> <p>p ¹⁴⁰Ce</p> <p>Ce⁺ deuteron 0.4938 Dickey 85 pol</p> <p>¹³⁹Ce deuteron γ 0.4938 Dickey 85 pol</p>
<p>p ¹²⁰Sn</p> <p>p X 0.3467 Machner 85 p</p> <p>n X 0.2941 Machner 85 p</p> <p>deuteron X 0.3467 Machner 85 p</p> <p>³H X 0.3467 Machner 85 p</p> <p>He X 0.3467 Machner 85 p</p>	<p>p ¹²⁴Sn</p> <p>p X 0.5513 Segel 85 cs, p 7.5 Bayukov 85D angp, p 7.5 Gavrilov 85B a-dep, angp, p</p> <p>n X 1.696 Baturin 87 a-dep, angp 7.5 Bayukov 85D angp, p 7.5 Gavrilov 85B a-dep, angp, p</p> <p>deuteron X 7.5 Gavrilov 85B a-dep, angp, p</p>	<p>p Tb</p> <p>¹⁴⁹Tb X 0.3438 - 1.627 Aleksandrov 89 cs 1.696 Aleksandrov 87B cs</p> <p>p ¹⁵⁰Tb</p> <p>²⁴Na X 4.491 Kozma 90B angp, p</p> <p>²⁸Mg X 4.491 Kozma 90B angp, p</p> <p>p Ho</p> <p>¹⁴⁰Tb X 0.3438 - 1.627 Aleksandrov 89 cs 1.696 Aleksandrov 87B cs</p> <p>p Gd</p> <p>¹⁴⁹Tb X 0.3438 - 1.627 Aleksandrov 89 cs 1.696 Aleksandrov 87B cs</p>
<p>p ¹²⁸Sn</p> <p>p X 7.5 Bayukov 85D angp, p</p> <p>n X 7.5 Bayukov 85D angp, p</p>	<p>p ¹³²Sn</p> <p>p X 7.5 Bayukov 85D angp, p</p> <p>n X 7.5 Bayukov 85D angp, p</p>	<p>p ¹⁴⁸Tm</p> <p>¹⁴⁹Tb X 0.3438 - 1.627 Aleksandrov 89 cs 1.696 Aleksandrov 87B cs</p>

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

p Ta —charged X

p Wt —³H X

p Ta		p Ta		p Wt	
charged X		deuteron X		charged⁻ X	
1 - 10	Kutsidi 86 mult	2.03 - 10.1	Ergakov 86 a-dep, angp		Bartels 88 et, pt
2.3	Grigalashvil 88 a-dep, mult	2.5 - 9.2	Safronov 88 angp	300	Schukraft 88B et, p, pt
charged⁻ X		6.37 - 8.08	Arefiev 85 a-dep, angp	γ X	Crittenden 8f angp
2.3	Grigalashvil 88 a-, p, mult	10.1	Safronov 88B angp	200.9	Akesson 89D cs, et, pt
mult[charged] X		10.14	Boyarinov 88 angp, p	ν_e X	Bartels 88 pt
2.3	Grigalashvil 88 a-dep, mult	³He X	Safronov 88B angp	400	Duffy 88 a-dep, cs, p, pt
mult[charged⁻] X		10.1	Ergakov 86 a-dep, angp		Duffy 86 cs, p, pt
2.3	Grigalashvil 88 a-dep, mult	³H X	Arefiev 85 a-dep, angp		Duffy 85 a-dep, cs, p
¹⁴⁰Tb X		6.37 - 8.08	Safronov 88B angp		Romanowski 85 cs, p, pt
0.3438 - 1.627	Aleksandrov 89 cs	10.1	Ergakov 86 a-dep, angp	$\bar{\nu}_e$ X	
1.696	Aleksandrov 87B cs	10.14	Boyarinov 88 angp, p	400	Duffy 88 a-dep, cs, $\bar{\nu}$, pt
²⁴Na X		mult[p] X	Safronov 88B angp		Duffy 86 cs, p, pt
4.491	Kozma 89 angp	4.2 - 10	Armutlijsky 87C col, mult		Duffy 85 a-dep, cs, p
²⁸Mg X		10	Agakishiev 87 mult		Romanowski 85 cs, p, pt
4.491	Kozma 89 angp	fragt X		ν_μ X	
π^0 X		4.491	Kozma 89 cs	400	Duffy 88 a-dep, cs, p, pt
4.2	Gulkanyan 87D mult	mult[frag] X	Hufner 85 p		Duffy 86 cs, p, pt
π^+ X		0.34 - 5.7			Duffy 85 a-dep, cs, p
4.94 - 10.14	Boyarinov 87 angp, p	mult[hadron] X	Baldin 86B		Romanowski 85 cs, p, pt
6.37 - 8.08	Arefiev 85 a-dep, angp	mult[jet] X		$\bar{\nu}_\mu$ X	
10.1	Sibirtsev 88 a-dep, angp	10	Baldin 86 col	400	Duffy 88 a-dep, cs, p, pt
	Vorontsov 88B a-dep, angp	p charged X			Duffy 86 cs, p, pt
10.14	Boyarinov 87B angp	10	Agakishiev 88 mult, p		Duffy 85 a-dep, cs, p
π^- X		p charged⁻ X			Romanowski 85 cs, p, pt
4.2	Gulkanyan 87D mult	10	Agakishiev 88 mult, p	π^0 X	
	Bartke 85 a-dep, asym, p	n charged X		200.9	Akesson 89D cs, et, pt
4.94 - 10.14	Boyarinov 87 angp, p	10	Agakishiev 88 mult, p	10	Bertin 88 angp
10	Armutlijsky 87B a-dep, angp, mult, p	n charged⁻ X		14.97 - 64.99	Belyaev 89B a-dep, angp
10.1	Vorontsov 88B a-dep, angp	10	Agakishiev 88 mult, p	25 - 65	Belyaev 88D a-dep, angp
10.14	Boyarinov 87B angp	2p X		300	Bertin 86 angp
K⁺ X		10	Pluta 88B angp, cor, p	400	Brown 86 a-dep, pt
1.693	Koptyev 88 cs		Agakishiev 87 p		Hsiung 85 a-dep, pt
10.1	Abrosimov 85B cs	π^\pm jet X	Agakishiev 87B cor	π^- X	
	Sibirtsev 88 a-dep, angp	10	Baldin 85 ang, p	14.97 - 64.99	Belyaev 89B a-dep, angp
	Vorontsov 88B a-dep, angp	p charged⁺ charged⁻ X			
10.14	Boyarinov 89 a-dep, angp	10	Agakishiev 88 p	J/ψ(1S) X	
	Boyarinov 88B a-dep, angp	n charged⁺ charged⁻ X		800	Mishra 90 a-dep, p, pt
K⁻ X		10	Agakishiev 88 p	ψ(2S) X	
10.1	Vorontsov 88B a-dep, angp	2p π X		800	Mishra 90 a-dep
10.14	Boyarinov 89 a-dep, angp	10	Agakishiev 87B cor	Υ(1S) X	
	Boyarinov 88C a-dep, angp	2p mult[p] X		800	Mishra 90 a-dep
p X		10	Agakishiev 87 p	Υ(3S) X + Υ(2S) X + Υ(1S) X	
2.5 - 9.2	Safronov 88 angp	p ¹⁸¹Ta		400	Mishra 90 a-dep
4.2	Gulkanyan 88D a-dep, angp, cor, cs, mult	inelastic		400	Childers 85 p
4.2 - 10	Armutlijsky 87C col, mult	1.35 - 3.75	Gachurin 85 cs	heavy-lepton X	
4.94 - 10.14	Boyarinov 86 angp	²⁴Na X		400	Duffy 88 cs
6.37 - 8.08	Arefiev 85 a-dep, angp	4.491	Kozma 90B angp, p	400	Brown 86 a-dep, p, pt
7.5	Bayukov 85F a-dep, p	²⁸Mg X			Hsiung 85 a-dep, pt
10	Agakishiev 87 a-dep, p	4.491	Kozma 90B angp, p	K_S X	
	Agakishiev 87 mult	n X		12	Abe 87B cs, p, pt
10.1	Safronov 88B angp	0.0433 - 0.1567	Machner 85	p X	
	Sibirtsev 88 a-dep, angp	1.696	Baturin 87 a-dep, angp	120	Bailey 85B cs, p
	Vorontsov 88B a-dep, angp	fragt X		Λ X	
	Ergakov 86 a-dep, angp	9	Kozma 87 cs	12	Abe 87B cs, p, pt
10.14	Boyarinov 87B angp	p Wt			Abe 86C pol
\bar{p} X		charged X		deuteron X	
10.1	Voronin 88 a-dep, angp	300	Crittenden 86 angp	70	Barkov 85C a-dep, cs, p
n X		charged⁺ X		³He X	
7.5	Bayukov 85F a-dep, p	300	Crittenden 86 angp	70	Barkov 85C a-dep, cs, p
10	Agakishiev 88 p	charged⁻ X		³H X	
		200.9	Akesson 89E cs, et, pt	70	Barkov 85C a-dep, cs, p

p Wt \rightarrow ^4He X p Au \rightarrow Λ X

p Wt		p Pt		p Au	
^4He X 70	Barkov 85C	K^- X 28.4	Snow 85	Fl X	Avdejchikov 87E
charm X 400	Duffy 88 Duffy 86	\bar{p} X 28.4	Snow 85	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87C angp, p
bottom X 400	Duffy 88 Badier 85D	longlived X 12	Nakamura 89	Ne X 2.55	Avdejchikov 87I angp, p Avdejchikov 87B angp, p Avdejchikov 87E
bottom X 400	Duffy 88	inelastic 200	Abe 88	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87C angp, p
charm X 400	Duffy 88 Duffy 86	charged X 200	Brick 89	Na X 3.308 - 8.386	Avdejchikov 87E angp, p Avdejchikov 87E angp, p Avdejchikov 87C angp, p
hadron $^-$ X 400	Brown 86 Hsiung 85	charged $^-$ X 60.93 - 200.9	Bamberger 89	3.308 - 8.386	Avdejchikov 87E angp, p Avdejchikov 87E angp, p Avdejchikov 87C angp, p
$\mu^- \mu^+$ X 125 400	Anassontzis 85 Badier 85B Badier 85D	200	Brick 90 Brick 89	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87E angp, p Avdejchikov 87C angp, p
800	Childers 85 Mishra 90	mult[charged] X 200 360	Brick 89 Bailey 88 Bailey 87D	^{24}Na X 1 - 300	Hufner 85
$2\pi^+$ X 400	Brown 86	mult[charged $^-$] X 200 360	Brick 89 Bailey 87D	Mg X 3.308 - 8.386	Avdejchikov 87B angp, p Avdejchikov 87E
$J/\psi(1S) \mu^+ X$ 400	Badier 85D	neutral X 14.5	Remsberg 88 Tannenbaum 88	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87E angp, p Avdejchikov 87C angp, p
$J/\psi(1S) \mu^- X$ 400	Badier 85D	^{103}Ru X 1 - 300	Hufner 85	Al X 3.36 - 8.396	Avdejchikov 87C angp, p
$2J/\psi(1S) X$ 400	Badier 85D	Bor X 2.55	Avdejchikov 87I	Si X 3.36 - 8.396	Avdejchikov 87C angp, p
$2K^+$ X 400	Brown 86	3.308 - 8.386	Avdejchikov 87B angp, p Avdejchikov 87E	^{46}Sc X 1 - 300	Hufner 85
charm-meson	charm-meson X Duffy 88 Duffy 86	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87C	^{59}Fe X 1 - 300	Hufner 85
Λ_c^+ charm-meson X 400	Duffy 88 Duffy 86	C X 2.55	Avdejchikov 87I	^{89}Zr X 1 - 300	Hufner 85
charm cha. m X 400	Duffy 85 Romanowski 85	3.308 - 8.386	Avdejchikov 87B angp, p Avdejchikov 87E	^{90}Nb X 1 - 300	Hufner 85
2hadron X 800	Kaplan 89	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87C	γ X 60.93 - 200.9	Albrecht 88B Lohner 88
2hadron $^+$ X 400 800	Brown 86 Streets 89	^{131}Ba X 1 - 300	Hufner 85	π^0 X 60.93 - 200.9	Albrecht 88B Franz 88B Lohner 88
2hadron $^-$ X 800	Streets 89	^{139}Ce X 1 - 300	Hufner 85	π^\pm X 200	Abe 88
hadron $^+$ hadron $^-$ X 400	Hsiung 85	Nit X 2.55	Avdejchikov 87I	π^- X 200	London 89 Abe 88
800	Streets 89	3.308 - 8.386	Avdejchikov 87B angp, p Avdejchikov 87E	K^0 X 200.9	Odyaniec 89
$\mu^- 2\mu^+$ X 400	Badier 85D	3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87C	K_S^0 X 60.93 - 200.9	Bamberger 89
$J/\psi(1S) \mu^- \mu^+ X$ 400	Badier 85D	^{140}Gd X 1 - 300	Hufner 85	200	London 89 Pugh 89 Vesztergombi 88
$2\mu^- 2\mu^+$ X 400	Badier 85D	^{140}Tb X 0.3438 - 1.627 1.696	Aleksandrov 89 Aleksandrov 87B	200.9	cs, p, pt
fragm X 1.696	Chestnov 87	O X 2.55	Avdejchikov 87I	p X 100 200 200.9	Toothacker 87 Abe 88 Schmidt 8E
2fragm X 1.696	Chestnov 87	3.308 - 8.386	Avdejchikov 87B angp, p Avdejchikov 87E	\bar{p} X 100	Toothacker 87
		3.36 - 8.396	Avdejchikov 87E angp, p Avdejchikov 87C	Λ X 60.93 - 200.9	Bamberger 89
		Fl X 2.55	Avdejchikov 87I	200	London 89 Odyniec 89 Pugh 89
		3.308 - 8.386	Avdejchikov 87B angp, p	200.9	mult, p, pt angp mult pt

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

p Au			p Au			p ¹⁹⁷ Au			
Λ X	Vesztergombi 88	cs, p, pt	n mult[p] X 100	Toothacker 87	p, pt	Mn X	Kozma 88	cs	
Λ̄ X	London 89 Odyniec 89 Vesztergombi 88	angp mult cs, p, pt	grey shower X 360	Bailly 87D	cor, mult	Fe X 4.491	Kozma 90 Kozma 88	cs cs	
baryon X	Schmidt 87	p	mult[grey] shower X 200	Brick 90 Brick 89 Bailly 87D	cor, mult, p mult p	Zn X 4.491	Kozma 90 Kozma 88	cs cs	
³ He X	Abashidze 85B	a-dep, angp	shower hadron X 360	Bailly 87D	cor, mult, p	As X 4.491	Kozma 90 Kozma 88	cs cs	
⁴ He X	Abashidze 85B	a-dep, angp	mult[grey] charged+ charged- X 200	Brick 89	n, ult	Se X 4.491	Kozma 90 Kozma 88	cs cs	
frag X	Hufner 85	p	p ¹⁹⁷ Au			Rb X 4.491	Kozma 90 Kozma 88	cs cs	
grey X	Abe 88 Bailly 87D	mult p	inelastic 4.491	Kozma 90 Kozma 88	cs cs	⁸⁷ Yt X 4.491	Kozma 90 Kozma 88	cs cs	
hadron X	Bamberger 86	et	Rh X 4.491	Kozma 90 Kozma 88	cs cs	Nb X 4.491	Kozma 90 Kozma 88	cs cs	
mult[frag] X	Hufner 85	p	Sb X 4.491	Kozma 90 Kozma 88	cs cs	Tc X 4.491	Kozma 90 Kozma 88	cs cs	
mult[hadron] X	Bailly 87D	mult	Te X 4.491	Kozma 90 Kozma 88	cs cs	p X 0.6444	Machner 85	-	
mult[neutral] X	Tannenbaum 89	et, p	Xe X 4.491	Kozma 90 Kozma 88	cs cs	deuteron X 0.6444	Machner 85	-	
mult[shower] X	Tannenbaum 89	et, p	Ba X 4.491	Kozma 90 Kozma 88	cs cs	He X 0.3746 0.6444	Machner 85 Machner 85	angp -	
shower X	Brick 90 Brick 89 Bailly 87D	cor, mult, p mult p	Pr X 4.491	Kozma 90 Kozma 88	cs cs	frag X 1.696 4.491	Chestnov 87 mass, p Damdinsuren 88B	cs	
2charged X	Brick 90	cor, mult, p	Eu X 4.491	Kozma 90 Kozma 88	cs cs	2frag X 1.696	Chestnov 87 mass, p, pt		
γ mult[charged] X	Lohner 88	mult, pt	Gd X 4.491	Kozma 90 Kozma 88	cs cs	(blacks) mult[grey] mult[shower] (neutrals)	100	Biswas 86	cs
2γ X	Albrecht 88B	mass	Tb X 4.491	Kozma 90 Kozma 88	cs cs	p Hg			
π+ π- X	Bamberger 89 Vesztergombi 88	mass mass	Dy X 4.491	Kozma 90 Kozma 88	cs cs	q X 800	Matis 88 Matis 86	cs cs	
p π± X	Toothacker 87	mult, p	Yb X 4.491	Kozma 90 Kozma 88	cs cs	p ²⁰⁷ Pb			
p π- X	Bamberger 89 Vesztergombi 88	mass mass	Lu X 4.491	Kozma 90 Kozma 88	cs cs	inelastic 1.35 - 3.75	Gachurin 85	cs	
p π+ X	Bamberger 89 Vesztergombi 88	mass mass	Hf X 4.491	Kozma 90 Kozma 88	cs cs	p Pb			
p mult[π±] X	Toothacker 87	p	Re X 4.491	Kozma 90 Kozma 88	cs cs	X 800	Gomez 86	a-dep, cs	
Λ π+ X	Bamberger 89	mult, p, pt	Na X 4.491	Kozma 90 Kozma 88	cs cs	inelastic 1.26 - 2.5 (479.9 - 1974)	Kuzichev 89 Avakyan 89C	a-dep, cs a-dep, cs	
2p X	Budilov 90 Toothacker 87	angp, cor, p mult	²⁴ Na X 4.491	Kozma 90B	angp, p	charged X 220 - 1500 > 10 ³	Dzhaoshvili 90 Berdenishvili 85	mult, p mult, p	
γ hadron X	Lohner 88	p, pt	Mg X 4.491	Kozma 90 Kozma 88	cs cs	neutral X 220 - 1500	Dzhaoshvili 90	p	
hadron charged- X	Strobele 88	cs, et, mult, p	²⁶ Mg X 4.491	Kozma 90B	angp, p	²⁴ Na X 4.491	Kozma 90B	angp, p	
mult[gray] charged- X	Brick 90 Brick 89	cor, mult, p mult	Sc X 4.491	Kozma 90 Kozma 88	cs cs	²⁶ Mg X 4.491	Kozma 90B	angp, p	
p mult[p] X	Toothacker 87	p, pt	Va X 4.491	Kozma 90 Kozma 88	cs cs	mult[charged] (neutrals) 400	Miettinen 88		
			Mn X 4.491	Kozma 90	cs	800	a-dep, angp, col, et, mult, p Gomez 86	col, et	
						π ⁰ X 185	Underwood 89	asym, p	
						π± X 4.5 - 7.5	Vorobiev 86B	angp	

$p \text{ Pb} \rightarrow \pi^+ X$ $p \text{ }^{238}\text{U} \rightarrow \text{inelastic}$

p Pb	p Pb	p Pb
$\pi^+ X$ 0.6084 - 0.6462 1 - 9 7.5 70	hadron X 200 jet X 800 longlived X 70 mult[hadron] X 200 800 q X 800 shower X 300 2charged⁺ X 70 2γ X 1.206 e⁻ e⁺ X 1.206 2π^+ X 7.5 70 J/ψ(1S) γ X 530 K⁺ π^+ X 70 p π^+ X 7.5 8.9 70 p π^- X 8.9 p K⁺ X 70 2p X 1.463 3 - 7.5 6 - 10 7.5 p n X 7.5 2n X 7.5 deuteron π^+ X 7.5 deuteron p X 1.463 7.5	deuteron p X deuteron n X 7.5 ³H p X 7.5 2deuteron X 7.5 (jets) jet X 400 2jet X 800 Pb p π^0 185 $\mu^- \mu^+ \gamma$ X 530 3p X 7.5 deuteron 2p X 7.5 2deuteron p X 7.5 2p fragt (neutrals) 6 - 10 4p X 7.5 p ²⁰⁸Pb ²⁰⁸Pb p 0.6444 0.6444 - 0.9543 p Bi p X 0.5513 ³H X 0.5513 p ²⁰⁹Bi inelastic 1.35 - 3.75 p X 0.4207 mult[n] π^- X 0.4895 - 1.463 p Ac 2p π^+ X 3.9 p ²³²Th fragt X 1.696 2fragt X 1.696 p ²³⁸U inelastic 1.35 - 3.75
Bimbrot 85 angp, cs Bayukov 85E a-dep, angp, p Vorobiev 89B a-dep, angp Vorobiev 88D a-dep, angp Abramov 84E a-dep, pt Bimbrot 85 angp, cs Bayukov 85E a-dep, angp, p Enyo 85 a-dep, angp, p Abramov 84E a-dep, pt De 89 - Koptevy 88 cs Abrosimov 85B cs Koptevy 88 cs Abrosimov 85B cs Schnetzer 89 angp, cs, p Abramov 84E a-dep, pt Abramov 84E a-dep, pt Rees 86 pol Bayukov 85C a-dep, angp, p Miake 84 angp Baturin 87B angp, p Baturin 85 a-dep, p Belostotsky 84 pol Tokushuku 90 angp Enyo 85 p Vorobiev 86B angp Bayukov 85F a-dep, p Vorobiev 85B pol Abramov 86 a-dep, pt Abramov 84E a-dep, pt Gomez 86B - Abramov 86 a-dep, pt Abramov 84E a-dep, pt Bayukov 85C a-dep, angp, p Baturin 87B angp, p Baturin 85 a-dep, p Vlasov 89 a-dep, angp Bayukov 85F a-dep, p Vorobiev 90 angp Vorobiev 89C angp Lundberg 89 pol Beretvas 86 angp, cs, p Beretvas 86 angp, cs, p Tokushuku 90 angp Abramov 86 a-dep, pt Abramov 86 a-dep, pt Vorobiev 87C cs Abramov 86 a-dep, pt Voronko 88 cs Abramov 86B cs Damdinsuren 89 cs	Akesson 88B angp, et Stewart 90 a-dep, angp, col, pt Abramov 86B cs Tannenbaum 89 et, p Tannenbaum 89 et, p Matis 86 cs Muraki 84 - Abramov 84D a-dep, angp, pt Faissner 88 ang, p Faissner 89 p Vlasov 90 a-dep, ang, angp, cor, p Vorobiev 89B angp, cor, pt Vorobiev 88D angp, cor Abramov 84D a-dep, angp, pt De 89 a-dep, cs, mass, p Abramov 84D a-dep, angp, pt Vlasov 90 a-dep, ang, angp, cor, p Averichev 89 cor, mass Abramov 84D a-dep, angp, pt Averichev 89 cor, mass Abramov 84D a-dep, angp, pt Miake 84 angp Bayukov 86 ang Carroll 88 angp Vorobiev 90B ang, angp, mass, p Bayukov 89 ang, angp, p Bayukov 89B ang, angp, p Bayukov 89C ang, angp, p Bayukov 88 angp, cor Vorobiev 87C mass Bayukov 85 cor Averichev 89 cor, mass Abramov 84D a-dep, angp, pt Vlasov 89 a-dep, ang, cor, p Bayukov 85B cor Vlasov 90 a-dep, ang, angp, cor, p Miake 84 angp Bayukov 89C ang, angp, p Vlasov 89B ang, p Vlasov 89B ang, p Vlasov 86 ang, angp, p Miettinen 88 a-dep, angp, et, p Stewart 90 a-dep, angp, col, et Underwood 89 mass De 89 mass Vlasov 88 ang, angp, cor Vlasov 88 ang, angp, cor Vlasov 88 ang, angp, cor Heppelmann 89 angp Vlasov 88 ang, angp, cor Morsch 85 angp, cs, pwa Lee 88 angp	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$p \text{ } ^{238}\text{U} \rightarrow \pi^\pm \text{X}$ $p \text{ nucleus} \rightarrow \text{black X}$

$p \text{ } ^{238}\text{U}$	$p \text{ U}$	$p \text{ nucleus}$
$\pi^\pm \text{X}$ 0.8533 - 1.09 Digiacomio 85	$\mu^- \mu^+ \text{X}$ 300 Cobbaert 88 Cobbaert 88B a-dep	πX 8.7 Fredriksson 87 mult
$\pi^+ \text{X}$ 0.8533 - 1.09 Digiacomio 85	320 Catanesi 89 a-dep, mass, p	$J/\psi(1S) \text{X}$ 16 - 400 Fredriksson 87 a-dep, angp
$\pi^- \text{X}$ 0.8533 - 1.09 Digiacomio 85	$2\mu^- \text{X} + 2\mu^+ \text{X}$ 200.9 Sonderegger 89 et, mass	fireball X 400 Shivpuri 88 angp, mass, p
fragt X 1.696 28 Chestnov 87 Hufner 85 mass, p	2p X 7.5 Bayukov 85 cor	mult[γ] X $4 \cdot 10^3 - 5 \cdot 10^5$ Azimov 85B pt
$2\mu^- \text{X} + 2\mu^+ \text{X}$ 200.9 Sonderegger 88 pt	p nucleus	mult[hrack] X 800 Abduzhamilov 88C a-dep, mult
2fragt X 1.696 Filatov 88 ang, col, cs, p	X 1.5 Harper 85 cs	$K^+ \text{X}$ 2.89 Schnetzler 89 angp, cs, p
2fragt (neutrals) 1.696 Filatov 88 ang, col, cs, p	$10^2 - 10^5$ Kawamura 89 cs	$K^- \text{X}$ 4 - 400 Fredriksson 87 angp
2fragt mult[charged] X 1.696 Filatov 88 mult	$10^2 - 10^{10}$ Linsley 84 cs	$K_S \text{X}$ 4 - 400 Fredriksson 87 angp
3fragt X 1.696 Filatov 88 ang, col, cs, p	10^6 Dawson 86 cs	p X 1.921 Antonchik 90B angp, mult, p
	mult[hrack] 800 Abdurazakova 87 mult	2.03 - 10.1 Sibirtsev 90 a-dep, angp, p
	inelastic 300 Fredriksson 87 a-dep, cs	4 - 400 Fredriksson 87 angp
	$500 - 5 \cdot 10^3$ Avakyan 85C cs	4.5 Leskin 86 p
	$2 \cdot 10^7$ Efimov 89 cs	13.8 - 300 Fredriksson 87 mult
	mult[black] 800 Abdurazakova 87 mult	$\bar{p} \text{X}$ 2.723 - 6.129 Fredriksson 87 angp
	mult[gray] 800 Abdurazakova 87 mult	4 - 400 Fredriksson 87 angp
	mult[shower] 800 Abdurazakova 87 mult	70 Prokoshkin 87C angp
	shower 300 - 1600 Avakyan 85F cs	n X 2.4 - 15 Ableev 87D a-dep, angp, cs
	charged X 220 - 1500 Dzhaoshvili 90 mult, p	4 - 400 Fredriksson 87 angp
	$> 10^3$ Berdenishvili 85 mult, p	nucleon X $3 \cdot 10^5 - 5 \cdot 10^5$ Dubovy 88 p
	$> 5 \cdot 10^3$ Nikolsky 85 p	$\Delta(1232 P_{33})^{++} \text{X}$ 2.4 - 15 Ableev 87D a-dep, angp, cs
	$8 \cdot 10^4$ Otterlund 88 p	ΛX 4 - 400 Fredriksson 87 a-dep, angp, p, pol, pt
	charged$^-$ X 5.4 - 300 Fredriksson 87 mult	12 - 2070 Panagiotou 89 a-dep, p, pol, pt
	mult[charged] X 10 Baldin 86 col	$\bar{\Lambda} \text{X}$ 4 - 400 Fredriksson 87 angp
	200 - 400 Aggarwal 85 mult	$\Xi^0 \text{X}$ 400 Fredriksson 87 a-dep, angp, p, pol, pt
	200.9 Holyanski 89 mult	deuteron X 1.4 - 400 Gavrilov 85 a-dep, angp, p
	neutral X 220 - 1500 Dzhaoshvili 90 p	deuteron X 70 Prokoshkin 87C angp
	supernucleus X 70 - 250 Batusov 85B cs	dibaryon(S = -2) X 10 Shahbazyan 88 cs, mass
	charmed-nucleus X 70 - 250 Lyukov 89 cs	$^3\text{He X}$ 70 Prokoshkin 87C angp
	hypernucleus X 70 - 250 Batusov 85 angp, cs, p	tritium X 70 Prokoshkin 87C angp
	nucleus X $3 \cdot 10^5 - 5 \cdot 10^5$ Dubovy 88 p	He X 200 - 400 Takibaev 90 p
	mult[charged] (neutrals) 200 - 800 Buschbeck 89 mult, p	mult[deuteron] X 4.5 Bannik 87B mult
	γX $8 \cdot 10^4$ Otterlund 88 p, pt	mult[p] X 4.5 Bannik 87B mult
	$\pi^\pm \text{X}$ 4.5 Vokal 88 p	$W^\pm \text{X}$ 70 Prokoshkin 87C cs
	$\pi^\pm \text{X}$ 2.03 - 10.1 Sibirtsev 90 a-dep, angp, p	black X 1.05 - 400.9 Atageldieva 88 mult, p
	4 - 400 Fredriksson 87 angp	
	< 800 Sulyaev 88 a-dep, angp, p, pt	
	$\pi^- \text{X}$ 4 - 400 Fredriksson 87 angp	
	21 Bajramov 89 p	
	70 Prokoshkin 87C angp	
	< 800 Sulyaev 88 a-dep, angp, p, pt	
$^{108}\text{Ag X}$ 400 Hufner 85 angp		
$^{111}\text{Ag X}$ 400 Hufner 85 angp		
$^{120}\text{Ba X}$ 400 Hufner 85 angp		
$^{140}\text{Ba X}$ 400 Hufner 85 angp		
$^{28}\text{Mg X}$ 400 Hufner 85 angp		
$^{44}\text{Sc X}$ 400 Hufner 85 angp		
$^{48}\text{Sc X}$ 400 Hufner 85 angp		
$^{64}\text{Cu X}$ 400 Hufner 85 angp		
$^{67}\text{Cu X}$ 400 Hufner 85 angp		
$\mu^+ \text{X}$ 300 Cobbaert 88 a-dep		
$\mu^- \text{X}$ 300 Cobbaert 88 a-dep		
$\pi^+ \text{X}$ 1 - 9 Bayukov 85E a-dep, angp, p		
$\pi^- \text{X}$ 1 - 9 Bayukov 85E a-dep, angp, p		
$K^+ \text{X}$ 1.693 Kopteyev 88 Abrosimov 85B cs		
p X 1 - 9 Bayukov 85C a-dep, angp, p		
7.5 Bayukov 85F a-dep, p		
120 Bailey 85B cs, p		
n X 1 - 9 Bayukov 85C a-dep, angp, p		
7.5 Bayukov 85F a-dep, p		
charm X 300 Cobbaert 88 a-dep, cs		
frag X 5.762 Shibata 86 cs		
fragt X 4.9 Hufner 85 angp		
$\mu^- \mu^+ \text{X}$ 200.9 Sonderegger 89 et, mass		

p nucleus \rightarrow black X p nucleus \rightarrow hypernucleus shower X

p nucleus	p nucleus	p nucleus	p nucleus
black X			
24 - 800	Abduzhamilov 88B		
67 - 400	Absemetova 85 angp, p		
800	Abduzhamilov 88C a-dep, mult		
?	Abdurazakova 87 mult		
	Abduzhamilov 87		
grey X			
5.7 - 400	Fredriksson 87 mult		
24 - 800	Abduzhamilov 88B angp		
90.2 - 99	Antonchik 87 angp, mult, p, pt		
200 - 800	Abduzhamilov 89 angp		
800	Abduzhamilov 88C a-dep, mult		
	Abdurazakova 87 mult		
	Abduzhamilov 87 mult		
hadron X			
70	Prokoshkin 87C angp, cor, pt		
hadron⁺ X			
< 800	Sulyaev 88 a-dep, angp, p, pt		
hadron⁻ X			
< 800	Sulyaev 88 a-dep, angp, p, pt		
htrack X			
5.7 - 400	Fredriksson 87 mult		
800	Abduzhamilov 88C a-dep, mult		
	Abdurazakova 87 mult		
	Abduzhamilov 87 mult		
	Shivpuri 87B mult		
jet X			
200	Fredriksson 87 a-dep, angp, pt		
mult[black] X			
30 - 400	Kim 85 p		
800	Abduzhamilov 88C a-dep, mult		
mult[grey] X			
4.5	Bannik 87B p		
400	Ahmad 90 angp, mult		
800	Abduzhamilov 89 mult		
	Abduzhamilov 88C a-dep, mult		
mult[hadron] X			
5.7 - 205	Baldin 87 col, p		
mult[jet] X			
10	Baldin 86 col		
mult[shower] X			
5.7 - 400	Fredriksson 87 mult		
6.129 - 800	Kumar 89 mult		
70	Bhattacharje 89 angp, cor, mult, p		
200 - 800	Holynski 89B cor, mult, p		
800	Abduzhamilov 89 mult		
	Abduzhamilov 88C a-dep, mult		
	Jain 87B mult, p		
	Shivpuri 87B mult		
	Nikolsky 85 p		
q X			
800	Matis 86 cs		
shower X			
4 - 400	Fredriksson 87 angp		
5.7 - 400	Fredriksson 87 mult		
24 - 800	Abduzhamilov 88B p		
30 - 400	Kim 85 p		
800	Abduzhamilov 89 mult, p		
	Abduzhamilov 88C a-dep, mult		
	Abdurazakova 87 mult, p		
shower X			
185	Akhcurin 89 angp, asym, pol		
800	Reiner 86 -		
mult[black] mult[shower]			
30 - 400	Kim 85 p		
2charged X			
24 - 400	Azimov 85 cor		
$\mu^- \mu^+ X$			
16 - 400	Fredriksson 87 a-dep, angp		
70	Prokoshkin 87C angp, cor, pt		
225	Rutherford 85 a-dep, mass		
400	Berger 86B cs, mass		
< 800	Sulyaev 88 a-dep, angp, p, pt		
800	Mishra 90 mass		
2π^0 X			
70	Prokoshkin 87C a-dep, angp, pt		
< 800	Sulyaev 88 a-dep, angp, p, pt		
$\pi^+ \pi^- X$			
< 800	Sulyaev 88 a-dep, angp, p, pt		
2fireball X			
400	Shivpuri 88 angp, mass, p		
K⁺ K⁻ X			
< 800	Sulyaev 88 a-dep, angp, p, pt		
p charged⁻ X			
5.4 - 300	Fredriksson 87 cor, mult		
p π^+ X			
4.2	Grishin 88B mass		
10	Kopylova 86 mass, p		
p π^- X			
10	Kopylova 86 mass, p		
2p X			
10	Kopylova 86 mass, p		
p Σ^- X			
10	Shahbazyan 88 cs, mass		
2A X			
10	Shahbazyan 88 cs, mass		
He mult[htrack] X			
200 - 400	Takibaev 90 p		
mult[μ] mult[π^\pm] X			
7.1	Guaraldo 89B cor, mult		
π^\pm mult[grey] X			
200	Abe 88 mult		
π^- mult[grey] X			
200	Abe 88 mult		
mult[htrack] black X			
1.05 - 400.9	Atageldieva 88 mult, p		
800	Abduzhamilov 88C cor, mult		
mult[htrack] grey X			
800	Abduzhamilov 88C cor, mult		
?	Abduzhamilov 89 -		
mult[htrack] mult[black] X			
67 - 400	Takibaev 88 ang, cor		
mult[htrack] mult[grey] X			
800	Abduzhamilov 89 mult		
mult[htrack] mult[shower] X			
200	Boos 86C a-dep, mult, p		
800	Abduzhamilov 89 mult		
	Jain 87B mult		
mult[htrack] shower X			
7.1 - 400	Fredriksson 87 cor, mult		
800	Abduzhamilov 88C cor, mult		
	Shivpuri 87B a-dep, mult, p		
	Jain 86 mult, p		
	Abduzhamilov 89		
p mult[grey] X			
200	Abe 88 p		
⁶Li black X			
70 - 250	Batusov 85 mult		
⁶Li grey X			
70 - 250	Batusov 85 mult		
⁶Li shower X			
70 - 250	Batusov 85 mult		
charm charm X			
200 - 360	Erriquez 85 cs		
black grey X			
90.2 - 99	Antonchik 87 angp, mult, p, pt		
400	Shivpuri 88B mult		
black mult[black] X			
800	Abduzhamilov 88B angp, cor, mult		
black mult[grey] X			
800	Abduzhamilov 88B angp, cor, mult		
	Abduzhamilov 88C cor, mult		
black mult[shower] X			
800	Abduzhamilov 88C cor, mult		
black shower X			
400	Shivpuri 88B mult		
grey mult[grey] X			
400	Ahmad 90 angp, mult		
800	Abduzhamilov 88B angp, cor, mult		
grey mult[shower] X			
300 - 800	Jain 88B cor, mult, p		
800	Abduzhamilov 88C cor, mult		
grey shower X			
300 - 800	Jain 88B cor, mult, p		
400	Shivpuri 88B mult		
htrack black X			
400	Shivpuri 88B mult		
htrack grey X			
400	Shivpuri 88B mult		
htrack mult[black] X			
800	Abduzhamilov 88C cor, mult		
htrack mult[grey] X			
800	Abduzhamilov 88C cor, mult		
htrack mult[shower] X			
400	Shivpuri 88 angp, mult		
800	Abduzhamilov 88C cor, mult		
htrack shower X			
400	Shivpuri 88B cor, mult, p		
hypernucleus black X			
70 - 250	Batusov 85 mult		
hypernucleus grey X			
70 - 250	Batusov 85 mult		
hypernucleus shower X			
70 - 250	Batusov 85 mult		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

p nucleus \rightarrow mult[black] grey X $n p \rightarrow p K^- 2\pi^+ X$

p nucleus	p supernucleus	$n p$
mult[black] grey X 800 Abduzhamilov 88B angp, cor, mult Abduzhamilov 88C cor, mult	supernucleus n 0.1374 Norman 87B cs	dibaryon π^- 1.25 - 2.23 Troyan 88 cs 1.257 Troyan 86 -
mult[black] shower X 800 Abduzhamilov 88C cor, mult	$n p$ X 0.4898 - 1.194 Grundies 85 cs 0.5317 - 1.207 Binz 89B cs 1.257 - 1.788 Lehar 87 cs	DD < $\Lambda K^0 > p$ 40 Aleev 88B cs, mass, pt
mult[grey] mult[shower] X 200 Boos 86C a-dep, mult, p	inelastic < 4.2 Bystricky 87 cs	deuteron axion 0 Borzakov 87 - Enghardt 87 cs Ananiev 83 -
mult[grey] shower X 24 - 800 Abduzhamilov 88B cor, mult, p 400 Ahmad 90 angp, mult Tariq 90 cor, mult, p 800 Abduzhamilov 88C cor, mult	charged X 6.1 Batyunya 86B mult	$\Lambda_c^+ \pi^+ X$ 20 - 70 Aleev 89B mass $\Lambda_c^+ \pi^- X$ 20 - 70 Aleev 89B mass
shower jet X 200 - 400 Boos 88B angp, mult	mult[charged] (neutrals) < 100 Bystricky 87 cs	deuteron 2γ ? Ananiev 83 p
shower mult[shower] X 800 Abduzhamilov 88B cor, mult, p	$\pi^+ X$ 4.2 Bekmirzaev 88B angp, mult, p, pt	deuteron $e^- e^+$ 0 Borzakov 87 cs Enghardt 87 mass
2hadron X 70 - 400 Fredriksson 87 a-dep, angp, cor, pt	$\pi^- X$ 4.2 Bekmirzaev 88B angp, mult, p, pt Bekmirzaev 87C angp, p, pt	2p π^- 1 - 5 Yokosawa 85C - 1 - 6 Yokosawa 85 - 1.25 - 2.23 Troyan 88 mass Beshliu 88 mass Zielinsky 88 cs, mass Beshliu 86 cs Troyan 86 mass Glagolev 89C angp, col, p < 12 Bystricky 87 cs
hadron ⁺ hadron ⁻ X < 800 Sulyaev 88 a-dep, angp, p, pt	ϕX 30 - 70 Aleev 89C cs, p, pt	2n π^+ 1 - 5 Yokosawa 85C - 1 - 6 Yokosawa 85 - < 12 Bystricky 87 cs
2jet X 400 Moore 90 a-dep, angp, p, pt	baryonium X 20 - 70 Aleev 89 - Aleev 88F - Aleev 88G cs	deuteron $\pi^+ \pi^-$ 1.25 - 5.1 Beshliu 86 cs < 5 Bystricky 87 cs
2mult[shower] X 800 Jain 86 cor, mult, p	baryonium ($S = +1$) X 20 - 70 Aleev 88D	deuteron π^0 (π^0_s) + p n π^0 (π^0_s) < 5 Bystricky 87 cs
2shower X 70 Bhattacharje 89 cor, p 800 Barbier 88 ang, angp, mult Shivpuri 87B a-dep, cor, p Jain 86 cor, mult, p	baryonium ($S = -1$) X 20 - 70 Aleev 88D	$p \Lambda K^0$ 40 Aleev 88B mass, p, pt
black shower X + grey shower X 400 Shivpuri 87 angp	p X 4.2 Bekmirzaev 88B angp, mult, p, pt	$\bar{p} \Lambda \pi^+ X$ 20 - 70 Aleev 88D mass $\bar{p} \Lambda \pi^- X$ 20 - 70 Aleev 88D mass $p \bar{\Lambda} \pi^+ X$ 20 - 70 Aleev 88D mass $p \bar{\Lambda} \pi^- X$ 20 - 70 Aleev 88D mass $\bar{p} \Lambda K^+ X$ 20 - 70 Aleev 89 mass Aleev 88F mass Aleev 88G mass
$e^- e^+ \nu X$ 19.48 Bernardi 85 p	$\Lambda_c^+ X$ 40 - 70 Vecko 89 cs Aleev 88C cs, p, pt	$p \bar{\Lambda} K^- X$ 20 - 70 Aleev 89 mass Aleev 88F mass Aleev 88G mass
$e^- e^+ e^\pm X$ 19.48 Bernardi 85 p	mult[p] X 1 - 200 Azimov 85D cs, mult	2p $\pi^0 \pi^-$ 1.25 - 5.1 Beshliu 86 cs < 11 Bystricky 87 cs
$\mu^\pm e^- e^+ X$ 19.48 Bernardi 85 p	deuteron γ 0 Enghardt 87 p Greene 86 - Doiughue 84D - 0.6088 - 1.061 Vanoers 85 amp, pwa 0.618 Meyer 85 angp 0.7618 Fearing 86 angp, pol	p n $\pi^+ \pi^-$ 1.25 - 5.1 Beshliu 86 cs < 12 Bystricky 87 cs
$\mu^- \mu^+ \gamma X$ 400 Rosner 85E -	p n 0.025 Sromicki 86 pol 0.1228 - 1.505 Vanoers 85 amp 0.1374 - 1.464 Bystricky 86D	p n π^0 (π^0_s) 1.25 - 5.1 Beshliu 86 cs 2n π^+ (π^0_s) 1.25 - 5.1 Beshliu 86 cs < 5 Bystricky 87 cs
$\mu^- \mu^+$ mult[charged] X 200 - 360 Erriquez 85	0.22 - 0.477 Abegg 89B angp, angp, cs 0.6448 - 1.091 Davis 88 angp, pol 0.9237 - 1.793 Terrier 87 angp 0.9237 - 1.85 Dobrovolsky 88 angp 1.06 Abegg 89 pol Abegg 85 angp, asym, pol	3charged (charged) (neutrals) 1 - 4.2 Bekmirzaev 87B cs
2K _S $\pi^0 X$? Cason 89 mass	1.069 - 1.45 Garnett 89 pol 1.091 - 1.464 Ditzler 87 pol < 1.1 Arndt 87 amp 1.25 - 5.1 Beshliu 86 cs Ball 88 asym, pol 1.257 - 1.788 Dobrovolsky 88 pol 1.261 - 1.68 Korolev 85 pol 1.373 - 1.696 Bystricky 85 pol 1.397 - 1.457 Delesquen 88 pol 1.452 Nath 89 angp, pol < 1.697 Lechanoinele 86 angp, cs, pol	$\Lambda 2\pi^+ \pi^- X$ 40 - 70 Aleev 88C mass p K ⁻ 2 π^+ X 20 - 70 Aleev 89B mass
Op 2charged X 200 Brick 90 cor, mult, p	3 - 200 Prokoshkin 87C angp, cs	
π^\pm mult[grey] mult[charged ⁻] X 200 Abe 88 mult	deuteron π^0 0.7411 - 0.7941 Hutcheon 89 angp, cs	
π^- mult[grey] mult[charged ⁻] X 200 Abe 88 mult		
p mult[grey] mult[charged ⁻] X 200 Abe 88 p		
mult[htrack] 2shower X 800 Jain 86 cor, mult, p		
(blacks) (greys) mult[shower] X 200 - 400 Andreeva 85B mult		
grey 2shower X 800 Barbier 88 angp, mult		
3shower X 70 Bhattacharje 89 cor, p		
4shower X 70 Bhattacharje 89 cor, p		

$n p \rightarrow p K^- \pi^+ \pi^- X$

$n C \rightarrow \pi^- X$

n p			n nucleon		n Be			
$p K^- \pi^+ \pi^- X$ 20 - 70	Aleev 89B	mass	$2K_S X$ 560	Cumalat 87	mass	$\bar{p} K^+ \pi^+ \pi^- X$ 640	Diesburg 87	mass
$p K^0 \pi^+ \pi^- X$ 40 - 70	Aleev 88C	mass	$K^+ K^- \pi^- X$ 560	Cumalat 87	mass	$\Sigma_c(2455)^0 K^- 2\pi^+ X$ 640	Coteus 87	a-dep, cs
$\bar{p} \Lambda 2\pi^+ X$ 20 - 70	Aleev 88D	mass	n deuteron			$\Sigma_c(2455)^{++} K^- 2\pi^+ X$ 640	Cumalat 87B	a-dep, cs
$\bar{p} \Lambda \pi^+ \pi^- X$ 20 - 70	Aleev 88D	mass	$^3H \gamma$ < 0.3106	Donoghue 84D	-	$\Sigma_c(2460)^+ K^- 2\pi^+ X$ 640	Coteus 87	a-dep, cs
$p \bar{\Lambda} 2\pi^- X$ 20 - 70	Aleev 88D	mass	n Be			Cumalat 87B	a-dep, cs	
$p \bar{\Lambda} \pi^+ \pi^- X$ 20 - 70	Aleev 88D	mass	X 0.5712 - 1.188	Franz 88	cs	Coteus 87	a-dep, cs, p, pt	
$\bar{p} \Lambda K^+ \pi^+ X$ 20 - 70	Aleev 89 Aleev 88F Aleev 88G	mass mass mass	$D^0 X$ 640	Coteus 87 Cumalat 87B	a-dep, cs a-dep, cs	$\Lambda K^- 2\pi^+ X$ 640	Coteus 87 Coteus 87B Cumalat 87B	mass, p mass, p mass, p
$\bar{p} \Lambda K^+ \pi^- X$ 20 - 70	Aleev 89 Aleev 88F Aleev 88G	mass mass mass	$D_S^- X$ 640	Shipbaugh 88B Shipbaugh 87	cs, p p	$\Sigma^0 K^- 2\pi^+ X$ 640	Coteus 87 Coteus 87B Cumalat 87B	mass, p mass, p mass, p
$p \bar{\Lambda} K^- \pi^+ X$ 20 - 70	Aleev 89 Aleev 88F Aleev 88G	mass mass mass	$D_S^+ X$ 640	Shipbaugh 88B Shipbaugh 87	cs, p p			
$p \bar{\Lambda} K^- \pi^- X$ 20 - 70	Aleev 89 Aleev 88F Aleev 88G	mass mass mass	$D^*(2010)^+ X$ 640	Shipbaugh 88B	a-dep, cs, p, pt			
$p \bar{p} K^+ K_S X$ 20 - 70	Aleev 89 Aleev 88F Aleev 88G	mass mass mass	$D^*(2010)^- X$ 640	Shipbaugh 88B	a-dep, cs, p, pt			
$p \bar{p} K_S K^- X$ 20 - 70	Aleev 89 Aleev 88F Aleev 88G	mass mass mass	$\Lambda_c^+ X$ 640	Diesburg 87 Filaseta 87B	cs, p, pt			
$2p \pi^+ 2\pi^-$ 1.25 - 5.1 < 9 40	Beshliu 86 Bystricky 87 Aleev 88B	cs cs mass	$\bar{\Lambda}_c^- X$ 640	Diesburg 87 Filaseta 87B	cs, p, pt			
3charged 2neutral (neutrals) 1.25 - 5.1	Beshliu 86	cs	$\Sigma_c(2455)^0 X$ 640	Klein 89C Diesburg 87	- -			
$2p \pi^+ \pi^0 2\pi^-$ 1.25 - 5.1	Zielinsky 88 Beshliu 86 Beshliu 85	cs, mass cs mass	$\Sigma_c(2455)^{++} X$ 640	Klein 89C Diesburg 87	- -			
$p n 2\pi^+ 2\pi^-$ 1.25 - 5.1 < 9	Beshliu 86 Bystricky 87	cs cs	$\bar{\Sigma}_c(2455)^{--} X$ 640	Diesburg 87	-			
$p n \pi^+ \pi^0 \pi^- (\pi^0's)$ < 10	Bystricky 87	cs	$\phi \pi^+ X$ 640	Shipbaugh 88B Shipbaugh 87	mass mass			
5charged 2neutral (neutrals) 1.25 - 5.1	Beshliu 86	cs	$\phi \pi^- X$ 640	Shipbaugh 88B Shipbaugh 87	mass mass			
n n			$\Lambda_c^+ \pi^+ X$ 640	Diesburg 87	mass			
inelastic 6.1	Batyunya 85D	cs	$\Lambda_c^+ \pi^- X$ 640	Diesburg 87	mass			
mult[charged] (neutrals) 6.1	Batyunya 85D	cs, mult	$\bar{\Lambda}_c^- \pi^+ X$ 640	Diesburg 87	mass			
n nucleon			$\bar{\Lambda}_c^- \pi^- X$ 640	Diesburg 87	mass			
$D^0 X$ 560	Cumalat 87	-	$K^+ K^- \pi^+ X$ 640	Shipbaugh 88B Shipbaugh 87	mass mass			
$\bar{D}^0 X$ 560	Cumalat 87	-	$K^+ K^- \pi^- X$ 640	Shipbaugh 88B Shipbaugh 87	mass mass			
$D^*(2010)^+ X$ 560	Cumalat 87	-	$p K^- \pi^+ X$ 640	Filaseta 87B	mass			
$D^*(2010)^- X$ 560	Cumalat 87	-	$\bar{p} K^+ \pi^- X$ 640	Filaseta 87B	mass			
$K^*(892)^+ X$ 560	Cumalat 87	-	$p K^- \pi^+ \pi^- X$ 640	Diesburg 87	mass			
$K^*(892)^0 X$ 560	Cumalat 87	-						

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$n C \rightarrow \pi^- X$ $n Al \rightarrow \Lambda X$

$n C$		$n C$		$n C$			
$\pi^- X$	Bekmirzaev 87C angp, p, pt Bekmirzaev 86 mult, p Bekmirzaev 85 mult, p	$K^*(892)^+ \pi^- X$ 40 - 70	Aleev 88 Aleev 85	mass mass	$\bar{p} \Lambda \pi^+ \pi^- X$ 20 - 70 40 - 70	Aleev 88D Aleev 86C	mass mass
$X(3100)^+ X$ 40 - 70	Aleev 86C a-dep, cs	$K^*(892)^- \pi^+ X$ 40 - 70	Aleev 88 Aleev 85	mass mass	$p \bar{\Lambda} 2\pi^- X$ 20 - 70	Aleev 88D	mass
$X(3100)^- X$ 40 - 70	Aleev 86C a-dep, cs	$K_S \pi^+ X$ 40 - 70	Aleev 88 Aleev 85	mass mass	$p \bar{\Lambda} \pi^+ \pi^- X$ 20 - 70	Aleev 88D	mass
$X(3100)^0 X$ 40 - 70	Aleev 86C a-dep, cs	$K_S \pi^- X$ 40 - 70	Aleev 88	mass	$\bar{p} \Lambda K^+ \pi^+ X$ 20 - 70	Aleev 89 Aleev 88F	mass mass
baryonium X 20 - 70	Aleev 89 Aleev 88F	$p \pi^- X$ 40	Aleev 87 Aleev 86	mass mass	$\bar{p} \Lambda K^+ \pi^- X$ 20 - 70	Aleev 89 Aleev 88F	mass mass
$D^0 X$ 40 - 70	Aleev 85	$\bar{p} \pi^+ X$ 40	Aleev 86	mass	$p \bar{\Lambda} K^- \pi^+ X$ 20 - 70	Aleev 89 Aleev 88F	mass mass
$\bar{D}^0 X$ 40 - 70	Aleev 88 Aleev 85	$\Lambda \pi^+ X$ 40	Aleev 86	mass	$p \bar{\Lambda} K^- \pi^- X$ 20 - 70	Aleev 89 Aleev 88F	mass mass
$D^+ X$ 40 - 70	Aleev 85	$\Lambda \pi^- X$ 20 - 70	Aleev 86B Aleev 86	mass mass	$p \bar{p} K^+ K_S X$ 20 - 70	Aleev 89 Aleev 88F	mass mass
$D^- X$ 40 - 70	Aleev 88 Aleev 85	$\Lambda K^- X$ 40	Aleev 86	mass	$p \bar{p} K_S K^- X$ 20 - 70	Aleev 89 Aleev 88F	mass mass
baryonium($S = +1$) X 20 - 70	Aleev 88D	$\Sigma(1385 P_{13})^+ K^+ X$ 60	Aleev 86 Prkoshkin 87C	mass ang, mass	$\bar{p} \Lambda 2\pi^+ \pi^- X$ 40 - 70	Aleev 89 Aleev 86C	mass mass
baryonium($S = -1$) X 20 - 70	Aleev 88D	$K^*(892)^+ 2\pi^- X$ 40 - 70	Aleev 88	mass	$n O$		
$p X$ 0.8374 - 1.149 4.2	Ero 87 Bekmirzaev 88 a-dep, angp, mult, p, pt Bekmirzaev 88B angp, mult, p, pt Kopylova 87 p	$K^*(892)^- 2\pi^+ X$ 40 - 70	Aleev 88 Aleev 85	mass mass	X 0.5712 - 1.188	Franz 88	cs
$N\phi(1950) X$ 20 - 60	Aleev 85B a-dep, cs	$K_S \pi^+ \pi^- X$ 40 - 70	Aleev 88 Aleev 85	mass mass	$n^{20}Ne$		
$\Lambda_c^+ X$ 40 40 - 70	Prkoshkin 87C Klein 89C Aleev 87B Aleev 84C	$p 2\pi^- X$ 20 - 70	Aleev 86B	mass	charged $^- X$ 1 - 200	Azimov 85D	mult
ΛX 40	Aleev 87 a-dep, p, pol, pt Aleev 86 cs, p, pt	$\Lambda \pi^+ \pi^- X$ 40	Krastev 88	mass	mult $[p] X$ 1 - 200	Azimov 85D	cs, mult
$\bar{\Lambda} X$ 40	Aleev 86 cs, p, pt	$\bar{p} \Lambda \pi^+ X$ 20 - 70 40 - 70	Aleev 88D Aleev 86C	mass mass	$n Ne$		
$\Sigma(1385 P_{13})^+ X$ 40	Aleev 86 cs, p, pt	$\bar{p} \Lambda \pi^- X$ 20 - 70 40 - 70	Aleev 88D Aleev 86C	mass mass	$\mu^+ X$ 280	Tzeng 85	p
$\Sigma(1385 P_{13})^- X$ 40	Aleev 86 cs, p, pt	$p \bar{\Lambda} \pi^+ X$ 20 - 70	Aleev 88D	mass	$\mu^- X$ 280	Tzeng 85	p
$\bar{\Sigma}(1385 P_{13})^+ X$ 40	Aleev 86 cs	$p \bar{\Lambda} \pi^- X$ 20 - 70	Aleev 88D	mass	charged-meson X 280	Tzeng 85	cs
$\Lambda(1520 D_{03}) X$ 40	Krastev 88 cs, p	$\bar{p} \Lambda K^+ X$ 20 - 70	Aleev 89 Aleev 88F	mass mass	Λ_c^+ charged-meson X 280	Tzeng 85	cs
$\Xi^- X$ 20 - 70	Aleev 86B Aleev 86	$p \bar{\Lambda} K^- X$ 20 - 70	Aleev 89 Aleev 88F	mass mass	$n Al$		
$\Xi^+ X$ 40	Aleev 86 cs	$K_S 2\pi^+ \pi^- X$ 40 - 70	Aleev 88 Aleev 85	mass mass	X 0.5712 - 1.188	Franz 88	cs
$\Xi(1530 P_{13})^0 X$ 40	Aleev 86 cs	$K_S \pi^+ 2\pi^- X$ 40 - 70	Aleev 88 Aleev 85	mass mass	$X(3100)^+ X$ 40 - 70	Aleev 86C	a-dep, cs
$\Omega^- X$ 40	Aleev 86 cs	$\Lambda 2\pi^+ \pi^- X$ 40 - 70	Aleev 87B Aleev 84C	mass angp, asym, mass	$X(3100)^- X$ 40 - 70	Aleev 86C	a-dep, cs
deuteron X 0.8374 - 1.149 4.2	Ero 87 Kopylova 87	$p \bar{K}^0 \pi^+ \pi^- X$ 40 - 70	Aleev 84C	angp, asym, mass	$X(3100)^0 X$ 40 - 70	Aleev 86C	a-dep, cs
$^3H X$ 0.8374 - 1.149	Ero 87 angp	$p K_S \pi^+ \pi^- X$ 40 - 70	Aleev 87B	mass	baryonium X 20 - 70	Aleev 89 Aleev 88F	- -
mult $[p] X$ 1 - 200	Azimov 85D cs, mult	$\bar{p} \Lambda 2\pi^+ X$ 20 - 70 40 - 70	Aleev 88D Aleev 86C	mass mass	baryonium($S = +1$) X 20 - 70	Aleev 88D	-
					baryonium($S = -1$) X 20 - 70	Aleev 88D	-
					$N\phi(1950) X$ 20 - 60	Aleev 85B	a-dep, cs
					$\Lambda_c^+ X$ 40 - 70	Aleev 87B	a-dep
					ΛX 40	Aleev 87	a-dep, p, pol, pt

$\bar{n} p \rightarrow \pi^+ X$

$\bar{n} n \rightarrow 2\pi^+ 2\pi^0 2\pi^-$

$\bar{n} p$		$\bar{n} p$		$\bar{n} p$		$\bar{n} p$	
$\pi^+ X$	0.7 6.1	Banerjee 85 Batyunya 87B angp, cs, mult, p, pt	p, pt	π^0 mult[charged] (neutrals)	6.1	Batyunya 87B	cs, mult, p, pt
$\pi^- X$	0.7 6.1	Banerjee 85 Batyunya 87B	p, pt angp	π^+ mult[charged] (neutrals)	6.1	Batyunya 87B	cs, mult, p, pt
$\rho^0 X$	0.5 - 0.8 6.1	Banerjee 86C Batyunya 88B	cs, p, pt cs, mult, p, pt	π^- mult[charged] (neutrals)	6.1	Batyunya 87B	mult, p
ωX	6.1	Batyunya 88B	cs, mult	ρ^0 mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$f_0(975) X$	0.5 - 0.8	Banerjee 86C	cs, p, pt	ω mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$f_2(1270) X$	6.1	Batyunya 88B	cs, mult	$f_2(1270)$ mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$p X$	6.1	Batyunya 87B angp, cs, mult, p, pt	cs	p mult[charged] (neutrals)	6.1	Batyunya 87B	cs, mult, p, pt
$\bar{p} X$	6.1	Batyunya 87B cs, mult, p, pt	cs	\bar{p} mult[charged] (neutrals)	6.1	Batyunya 86B	cs
$\Delta(1232 P_{33})^{++} X$	6.1	Batyunya 88B	cs, mult, p, pt	$\Delta(1232 P_{33})^{++}$ mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$\Delta(1232 P_{33})^0 X$	6.1	Batyunya 88B	cs, mult	annihil mult[charged] (neutrals)	6.1	Batyunya 86B	cs
$\bar{\Delta}(1232 P_{33})^{--} X$	6.1	Batyunya 88B	cs, mult	$2\pi^+ \pi^-$	0.48 - 0.72 0.5 - 0.8	Sedlak 88 Banerjee 86C	cs cs, mass
$\bar{\Delta}(1232 P_{33})^0 X$	6.1	Batyunya 88B	cs, mult	$\rho^0 \pi^+ \pi^0$	0.5 - 0.8	Banerjee 86C	cs
annihil charged	6.1	Batyunya 86B	mult	$\rho^+ \pi^+ \pi^-$	0.5 - 0.8	Banerjee 86C	cs
$\pi^+ \pi^0$	0.5 - 0.8	Banerjee 86C	cs	$\rho^- 2\pi^+$	0.5 - 0.8	Banerjee 86C	cs
$\rho^0 \pi^+$	0.5 - 0.8	Banerjee 86C	cs	$2\rho^0 \pi^+$	0.5 - 0.8	Banerjee 86C	cs
$\omega \pi^+$	0.5 - 0.8	Banerjee 86C	cs	ρ^0 annihil mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$f_0(975) \pi^+$	0.5 - 0.8	Banerjee 86C	cs	ω annihil mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$\rho^+ \rho^0$	0.5 - 0.8	Banerjee 86C	cs	$f_2(1270)$ annihil mult[charged] (neutrals)	6.1	Batyunya 88B	cs, mult
$p \bar{n}$	0.7 6.1	Banerjee 85 Batyunya 84	cs cs	$2\pi^+ \pi^0 \pi^-$	0.5 - 0.8	Banerjee 86C	cs, mass
π^+ annihil	6.1	Batyunya 87B	angp, mult, p, pt	$\rho^0 2\pi^+ \pi^-$	0.5 - 0.8	Banerjee 86C	cs
π^- annihil	6.1	Batyunya 87B	angp, mult, p, pt	$\omega 2\pi^+ \pi^-$	0.5 - 0.8	Banerjee 86C	cs
ρ^0 annihil	6.1	Batyunya 88B	cs, mult	$f_0(975) 2\pi^+ \pi^-$	0.5 - 0.8	Banerjee 86C	cs
ω annihil	6.1	Batyunya 88B	cs, mult	$3\pi^+ 2\pi^-$	0.48 - 0.72 0.5 - 0.8	Sedlak 88 Banerjee 86C	cs cs, mass
$f_2(1270)$ annihil	6.1	Batyunya 88B	cs, mult	$\rho^+ 2\pi^+ 2\pi^-$	0.5 - 0.8	Banerjee 86C	cs
$\pi^+ \pi^- X$	6.1	Batyunya 88B	mass	$2\rho^0 2\pi^+ \pi^-$	0.5 - 0.8	Banerjee 86C	cs
$p \pi^+ X$	6.1	Batyunya 88B	mass	$2\pi^+ \pi^0 \pi^- (\pi^0)_{\text{is}}$	0.48 - 0.72	Sedlak 88	cs
$p \pi^- X$	6.1	Batyunya 88B	mass	$3\pi^+ \pi^0 2\pi^-$	0.5 - 0.8	Banerjee 86C	cs, mass
$\bar{p} \pi^+ X$	6.1	Batyunya 88B	mass	$\rho^0 3\pi^+ 2\pi^-$	0.5 - 0.8	Banerjee 86C	cs
$\bar{p} \pi^- X$	6.1	Batyunya 88B	mass	$4\pi^+ 3\pi^-$	0.5 - 0.8	Banerjee 86C	cs, mass
				$3\pi^+ \pi^0 2\pi^- (\pi^0)_{\text{is}}$	0.48 - 0.72	Sedlak 88	cs

$\bar{n} p$		$\bar{n} p$		$\bar{n} p$		$\bar{n} p$	
				$4\pi^+ \pi^0 3\pi^-$	0.5 - 0.8	Banerjee 86C	cs, mass
				$\bar{n} n$			
				inelastic	6.1	Batyunya 85D	cs
				charged ⁺ X	6.1	Batyunya 87G	p
				charged ⁻ X	6.1	Batyunya 87G	p
				mult[charged] (neutrals)	6.1	Batyunya 85D	cs, mult
				$\pi^0 X$	6.1	Batyunya 87G	ang, angp
				$\pi^+ X$	6.1	Batyunya 87G	ang, angp, cs
				$\pi^- X$	6.1	Batyunya 87G	ang, angp, cs
				$p X$	6.1	Batyunya 87G	ang, angp, cs
				$\bar{p} X$	6.1	Batyunya 87G	ang, angp, cs
				$n X$	6.1	Batyunya 87G	ang, angp
				$\bar{n} X$	6.1	Batyunya 87G	ang, angp
				$p \bar{p}$	6.1	Batyunya 87G	cs
				$\pi^+ \pi^0 \pi^-$	6.1	Batyunya 87G	cs
				$p \bar{p} \pi^0$	6.1	Batyunya 87G	cs
				$n \bar{p} \pi^+$	6.1	Batyunya 87G	cs
				$p \bar{n} \pi^-$	6.1	Batyunya 87G	cs
				$p \pi^-$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$\bar{p} \pi^+$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$p \bar{p}$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$2\pi^+ 2\pi^-$	6.1	Batyunya 87G	cs
				$p \bar{p} \pi^+ \pi^-$	6.1	Batyunya 87G	cs
				$p \bar{p} \pi^+ \pi^0 \pi^-$	6.1	Batyunya 87G	cs
				$n \bar{p} 2\pi^+ \pi^-$	6.1	Batyunya 87G	cs
				$p \bar{n} \pi^+ 2\pi^-$	6.1	Batyunya 87G	cs
				$2\pi^+ 2\pi^-$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$p \pi^+ 2\pi^-$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$\bar{p} 2\pi^+ \pi^-$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$p \bar{p} \pi^+ \pi^-$ neutral (neutrals)	6.1	Batyunya 87G	cs
				$2\pi^+ 2\pi^0 2\pi^-$	6.1	Batyunya 87G	cs

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

$\bar{n} n \rightarrow 3\pi^+ 3\pi^-$ deuteron $p \rightarrow p X$

$\bar{n} n$				nucleon Pb			Σ^- Be		
$3\pi^+ 3\pi^-$ 6.1	Batyunya 87G	cs		nucleon X (2785 - 6216) Borisov 85D	p		$p 2K^- 2\pi^+ X$ 135	Biagi 85	mass
$p \bar{p} 2\pi^+ 2\pi^-$ 6.1	Batyunya 87G	cs		nucleon nucleus			$\bar{p} \Lambda 2\pi^+ \pi^- X$ 135	Augustin 88C Bourquin 86	mass mass
$3\pi^+ \pi^0 3\pi^-$ 6.1	Batyunya 87G	cs		mult[charged-meson] X 10 - 250 Atwater 87	pt				
$n \bar{p} 3\pi^+ 2\pi^-$ 6.1	Batyunya 87G	cs		2frag (frags) ? Cai 87B	mult. p		Σ^- Wt		
$p \bar{n} 2\pi^+ 3\pi^-$ 6.1	Batyunya 87G	cs		Λ Be			γX 0	Gall 88 Hertzog 88	p p
$3\pi^+ 3\pi^-$ neutral (neutrals) 6.1	Batyunya 87G	cs		Be Σ^0 80 - 350 Petersen 86			Σ^- Pb		
$4\pi^+ \pi^0 4\pi^-$ 6.1	Batyunya 87G	cs		Λ Sn			γX 0	Gall 88 Hertzog 88	p p
$n \bar{p} 4\pi^+ 3\pi^-$ 6.1	Batyunya 87G	cs		Sn Σ^0 80 - 350 Petersen 86			$f_2(1270)$ nucleon		
\bar{n} nucleon				Λ Pb			X < 3.9	Nakai 89	cs
annihil < 0.043	Mutchler 88	amp, cs		Pb Σ^0 80 - 350 Petersen 86			Ξ^- Be		
2π (π^0 's) 0	Takita 86	-		Λ nucleus			$\Xi^- X$ 116	Biagi 87C	cs, p, pol, pt
$\bar{n}^{12}C$				nucleus Σ^0 80 - 350 Petersen 86			$\Xi(1530 P_{13})^0 X$ 116	Schneider 90	cs, p, pt
mult[p] mult[π^+] X 1.4	Guaraldo 89B	cor, mult		Σ^- Be			$\Xi(1530 P_{13})^- X$ 116	Schneider 90	cs, p, pt
$\bar{n} C$				X(3100) ⁺ X 135			$\Xi(1690)^- X$ 116	Biagi 87	pt
annihil 0	Bitter 89	-		X(3100) ⁻ X 135			$\Xi(1820 D_{13})^- X$ 116	Biagi 87	pt
mult[charged] X 0	Bressi 89	cs		X(3100) ⁰ X 135			$\Xi(1820 D_{13})^0 X$ 116	Biagi 87B	pwa
$\bar{n} Ta$				$\Xi_c(2460)^+ X$ 135			$\Xi(1950)^0 X$ 116	Biagi 87B	pwa
X 12.2	Andreev 87	-		$\Xi_c(2460)^0 X$ 135			$\Xi^-(unspec) X$ 116	Biagi 86B	cs
charged X 6.1	Andreev 90B	mult		$\Omega_c X$ 135			$\Omega^- X$ 116	Biagi 87C	cs, p, pol, pt
12.2	Andreev 87	mult		$\Omega^- K^+ X$ 135			$\Omega^-(unspec)^- X$ 116	Biagi 86B	cs
charged ⁻ X 6.1	Andreev 90B	mult		$p K^0 K^- X$ 135			DD < $\Lambda K^- > X$ 116	Biagi 87	mass, pt
12.2	Andreev 87	mult		$\Sigma(1385 P_{13})^+ K^- \pi^+ X$ 135			DD < $\Xi^- \pi^+ \pi^- > X$ 116	Biagi 87	mass, pt
mult[charged] X 6.1	Andreev 90B	mult		$\Lambda \bar{K}^*(892)^0 \pi^+ X$ 135			Ξ^0 charged X 116	Schneider 90	cs, p, pt
$p X$ 6.1	Andreev 90B	mult		$\Omega^- K^+ \pi^+ X$ 135			$\Xi^0 \pi^- X$ 116	Schneider 90	mass
mult[p] X 6.1	Andreev 90B	mult		$\Lambda K^- \pi^+ \pi^0 X$ 135			$\Xi^- \pi^+ X$ 116	Schneider 90	mass
shower X 6.1	Andreev 90B	mult		$\Lambda K^- 2\pi^+ X$ 135			$\Lambda \bar{K}^0 X$ 116	Biagi 87B	mass, pwa
p mult[π^+] X 6.1	Andreev 90B	mult		$p 2K^- \pi^+ X$ 135			$\Sigma^0 \bar{K}^0 X$ 116	Biagi 87B	mass, pwa
p mult[π^-] X 6.1	Andreev 90B	mult		$p \bar{K}^0 K^- \pi^+ X$ 135			$\Xi(1530 P_{13})^0 K^- X$ 116	Biagi 86B	mass
p mult[shower] X 6.1	Andreev 90B	mult		$\Xi^- K^- 2\pi^+ X$ 135			$\Xi^- K^- \pi^+ X$ 116	Biagi 86B	cs, mass
mult[p] shower X 6.1	Andreev 90B	mult		$\Xi^- K^- 2\pi^+ X$ 135			$\Xi^- 12C$		
$\bar{n}^{181}Ta$				$\Xi^- K^- 2\pi^+ X$ 135			7Li 6Hess 0	May 89B	-
mult[p] mult[π^+] X 6.1	Guaraldo 89B	cor, mult		$\bar{p} \Lambda 2\pi^+ X$ 135			Ξ^- nucleus		
nucleon nucleon				$\bar{p} \Lambda 2\pi^+ X$ 135			${}^{10}Be_{SS} X$ 0	May 89B	-
charm X 200.9	Aoki 89	cs		$\bar{p} \Lambda \pi^+ \pi^- X$ 135			deuteron p		
nucleon Cu							$p X$ 12.2	Batyunya 84	mass, p
2frag (frags) 1.582 - 2.574	Tolstov 87	p							
nucleon Pb									
inelastic (2785 - 6216)	Borisov 85D	cs							

deuteron $p \rightarrow \bar{p}(\text{spect}) p \bar{n}$

deuteron deuteron $\rightarrow K^-$ charged X

deuteron p				deuteron p				deuteron p							
deuteron p				deuteron p				deuteron p							
$\bar{p}(\text{spect}) p \bar{n}$	12.2	Batyunya 84	cs	X	2.067 - 3.67	Katayama 85	cs	$p 2n \pi^+$							
$p \bar{n} \bar{p}$	12.2	Batyunya 84	angp, cs, mass	$\pi^0 X$	1.478	Fredriksson 87	angp, pt			Glagolev 89B	mass	Balgansuren 88	mass, p	Zielinsky 88	cs, mass
deuteron deuteron				deuteron deuteron				deuteron deuteron							
inelastic	12.2	Batyunya 87	cs	$\pi^- X$	1	Viryasov 89	angp, p	X	1.5 - 4			Kishida 89		cs	
charged⁺ X	12.2	Batyunya 87H	pt	mult $[\pi^-] X$	3.392	Gulkanyan 89	mult	charged X	12.2			Batyunya 87D	cs, mult		
charged⁻ X	12.2	Batyunya 87H	pt	$p X$	2.067 - 3.67	Katayama 85	cs		(124)			Fischer 88	a-dep, p, pt	Breakstone 86F	mul', pt
mult[charged] (neutrals)	12.2	Batyunya 87	cs		3.33	Shimansky 88	angp	charged⁻ X	1036			Bell 86	mult, p		
γX	12.2	Batyunya 871	cs, p, pt		4.3 - 9	Azhgirej 85	angp		(124)			Fischer 88	a-dep, p, pt		
$\pi^+ X$	12.2	Batyunya 87H	cor, p	deuteron X	4.3 - 9	Azhgirej 85	angp	$\pi^0 X$	1023			Angelis 87	angp, pt		
$\pi^- X$	12.2	Batyunya 87H	cor, cs, p, pt		9	Azhgirej 88B	angp, mass		1063			Fredriksson 87	angp, pt		
$K_S X$	12.2	Batyunya 871	cs, pt	deuteron p	1.908	Adams 87	asym, dme, pol	$\pi^+ X$	1023			Breakstone 85F	cs		
ΛX	12.2	Batyunya 871	cs, pt		2.08	Katayama 85	angp, cs		(124)			Fischer 88	a-dep, p, pt		
$\bar{\Lambda} X$	12.2	Batyunya 871	cs, pt		2.38 - 12	Yokosawa 85C	-	$\pi^- X$	1023			Breakstone 85D	cs		
baryon X	12.2	Batyunya 87H	cs, pt		3	Avedjchikov 88	asym		(124)			Fischer 88	a-dep, p, pt		
γ mult[charged] X	12.2	Batyunya 871	mult		3	Ablev 88	pol	ϕX				Akesson 85F	cs		
K_S mult[charged] X	12.2	Batyunya 87I	mult		1.29	Boudard, d	pol		(63 - 88)						
Λ mult[charged] X	12.2	Batyunya 871	mult		deuteron N(1440 B)⁺	9	Azhgirej 88B	angp	mult $[\pi^0] X$	12.2		Batyunya 87D	cs, r, ut		
$\bar{\Lambda}$ mult[charged] X	12.2	Batyunya 871	mult			9	Azhgirej 88B	angp				Breakstone 85D	cs		
p(spect) $\bar{p}(\text{spect}) X$	12.2	Batyunya 87G	-			3.146 - 3.229	Berger 88C	angp, pol	$K^+ X$	1023		Fischer 88	a-dep, p, pt		
deuteron Th				deuteron p				deuteron p							
X	12.2	Andreev 87	-			9	Azhgirej 88B	angp	$K^- X$	1023		Fischer 88	a-dep, p, pt		
charged X	12.2	Andreev 90B	mult			1.529 - 2.368	Bali 87	asym, pol	$p X$	4.3 - 9		Azhgirej 85	angp		
charged⁻ X	12.2	Andreev 90B	mult			2 - 3.7	Sai 86	angp, cs		9		Azhgirej 88F	angp		
mult[charged] X	12.2	Andreev 90B	mult			p(spect) p n	1.529 - 2.368	Bali 87	asym, pol			He X	2.746	Banaigs 86	mass
$p X$	12.2	Andreev 90B	mult				1.829 - 1.9	Delesquen 88	angp, cs			anomalon X	7.9	Clarke 86	cs
mult $[\rho] X$	12.2	Andreev 90B	mult				2 - 3.7	Sai 86	angp, cs			hadron X	(126)	Akesson 49	et
shower X	12.2	Andreev 90B	mult				< 1.417	Yokosawa 85	-			mult $[\text{neutral}] X$	(124)	Tannenbaum 89	et, p
p mult $[\pi^+] X$	12.2	Andreev 90B	mult				2 - 3.7	Sai 86	angp, cs			$^4\text{He } \gamma$	0.0335 - 0.436	Weller 88	pol
p mult $[\pi^-] X$	12.2	Andreev 90B	mult				3.3	Yokosawa 85C	-			2deuteron	2.38 - 4.18	Avedjchikov 88	asym
p mult[shower] X	12.2	Andreev 90B	mult				3.33	Glagolev 90	mass			$^4\text{He } \pi^0$	1.908	Banaigs 87	angp
mult $[\rho]$ shower X	12.2	Andreev 90B	mult				3.33	Glagolev 89B	mass			He η	2.746	Banaigs 86B	cs
deuteron nucleus				deuteron p				deuteron p							
inelastic	13.3	Prokoshkin 87C	cs				3.33	Glagolev 96	cs			π^+ charged X	(63 - 88)	Akesson 85F	mult
								Glagolev 89B	cs			π^- charged X	(63 - 88)	Akesson 85F	mult
												K^+ charged X	(63 - 88)	Akesson 85F	mult
												K^- charged X	(63 - 88)	Akesson 85F	mult

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

deuteron $^{207}\text{Pb} \rightarrow ^{93}\text{Tc}^* \text{X}$ $^3\text{He} p \rightarrow \text{deuteron dibaryon } \pi^+$

deuteron ^{207}Pb			deuteron ^{232}Th			$^3\text{H} p$		
$^{93}\text{Tc}^* \text{X}$ 9	Butsev 85	cs	mult[p] X 0.5172	Machner 85	p	4charged (neutrals) 5 Abdullin 89		
$^{93}\text{Tc} \text{X}$ 9	Butsev 85	cs	deuteron nucleus			2p 2n π^0 5 Abdullin 89F angp, p Abdullin 88B angp, cs, mass		
deuteron Pb			inelastic 3.392 Gulkanyan 89 cs 5.779 Judek 86 cs			3p n π^- 5 Abdullin 89F angp, p		
$\text{K}^+ \text{X}$ 5.779	Schnetzer 89	angp, cs, p	mult{charged} X 3.392	Gulkanyan 89	mult	p 3n π^+ 5 Abdullin 89F angp, p		
mult[n] X 9	Voronko 88	cs	mult[π^-] X 3.392	Gulkanyan 89	mult	2p 2n (π^0 's) 5 Abdullin 89 cs		
fragm X 8.982	Damdinsuren 89B	cs	$\text{K}^+ \text{X}$ 5.779	Schnetzer 89	angp, cs, p	deuteron 2n π^+ (π^0 's) 5 Abdullin 89 cs		
2p X 8.9	Averichev 89	cor, mass	grey X 90.2 - 99	Antonchik 87	angp, mult, p, pt	p 3n π^+ (π^0 's) 5 Abdullin 89 cs		
deuteron p X 8.9	Averichev 89	cor, mass	nucleus deuteron 3.392 Gulkanyan 89 cs			$^3\text{He} p$		
deuteron ^{208}Pb			2charged X 8.2	Balea 85	p	X 2.5 8 - 16 Blinov 85 cs Bano 87 cs		
mult[p] X 0.5172	Machner 85	p	p π^+ X 8.4	Grishin 88B	mass	p X 5 Abdullin 89F cs, mult, p		
^{208}Pb deuteron 0.5745	Morsch 85	angp, cs, pwr.	black grey X 90.2 - 99	Antonchik 87	angp, mult, p, pt	n X 5 Abdullin 89F cs, mult, p		
deuteron Bi			nucleus p n 2.746 - 3.392	Bystricky 85	-	deuteron X 4.731 4.8 Yokosawa 85C - Zielinsky 88 cs, mass		
p X 4.3 - 9	Azhgirej 85	angp	$^3\text{H} p$			$^3\text{He} \text{X}$ 13.44 - 13.56 Bano 87 p		
deuteron X 4.3 - 9	Azhgirej 85	angp	X 5	Abdullin 89	cs	$^3\text{H} \text{X}$ 2.4 - 15 Ableev 87D a-dep, angp, cs		
deuteron ^{209}Bi			charged (neutrals) 5	Abdullin 89	cs	anomalon X 13.44 - 13.56 Bano 87 mult		
$^{132}\text{Ln} \text{X}$ 9	Butsev 85	cs	2charged (neutrals) 5	Abdullin 89	cs	$^3\text{H} \Delta(1232 \text{F}_{33})^{++}$ 4.4 - 18.3 Ableev 87 ang Ableev 87E angp		
$^{198}\text{Pb} \text{X}$ 9	Butsev 85	cs	p X 5	Abdullin 89B Abdullin 89F	angp	tribaryon p 5 Abdullin 89E cs, cs Abdullin 88C cs		
$^{198}\text{Tl} \text{X}$ 9	Butsev 85	cs	n X 5	Abdullin 89F	cs, mult, p	deuteron dibaryon 5 Abdullin 88D cs		
$^{198}\text{Tl}^* \text{X}$ 9	Butsev 85	cs	$^3\text{H} p$ 5	Abdullin 89 Abdullin 89C	angp, cs cs	deuteron 2p 2.5 - 5 Blinov 86 angp, cs, mass, p Blinov 84B ang, angp, cs		
$^{200}\text{Pb} \text{X}$ 9	Butsev 85	cs	deuteron p n 5	Abdullin 89 Abdullin 89C Abdullin 89D Abdullin 89F	angp, cs ang, cs, p angp, p	5 Abdullin 89D ang, cs, p Abdullin 89F angp, p Abdullin 88 ang, angp, cs, p Blinov 85D angp, cs, mass		
$^{200}\text{Tl} \text{X}$ 9	Butsev 85	cs	$^3\text{H} p \pi^0$ 5	Abdullin 89	cs	deuteron n $\Delta(1232 \text{F}_{33})^{++}$ 5 Abdullin 88D cs, mass		
$^{201}\text{Pb} \text{X}$ 9	Butsev 85	cs	$^3\text{H} n \pi^+$ 5	Abdullin 89	cs	tribaryon p π^+ 5 Abdullin 89E cs Abdullin 88C cs Abdullin 88D cs		
$^{202}\text{Bi} \text{X}$ 9	Butsev 85	cs	dibaryon 2n 5	Abdullin 88B	cs	tribaryon n π^+ 5 Abdullin 88D cs		
$^{202}\text{Pb} \text{X}$ 9	Butsev 85	cs	3charged (neutrals) 5	Abdullin 89	cs	dibaryon 2p 5 Abdullin 89E cs		
$^{203}\text{Bi} \text{X}$ 9	Butsev 85	cs	2p 2n 5	Abdullin 88B	angp, cs, mass	dibaryon p n 5 Abdullin 88D cs		
$^{203}\text{Pb} \text{X}$ 9	Butsev 85	cs	deuteron p n π^0 5	Abdullin 89F	angp, p	dibaryon 2n 5 Abdullin 89E cs, cs Abdullin 88C cs		
$^{204}\text{Bi} \text{X}$ 9	Butsev 85	cs	deuteron 2p π^- 5	Abdullin 89F Abdullin 89G	angp, p	deuteron dibaryon π^+ 5 Abdullin 88D cs		
$^{206}\text{Bi} \text{X}$ 9	Butsev 85	cs	dibaryon 2n π^0 5	Abdullin 88B	cs	deuteron dibaryon π^+ 5 Abdullin 88D cs		
$^{24}\text{Na} \text{X}$ 9	Butsev 85	cs	deuteron p n (π^0 's) 5	Abdullin 89	cs	deuteron dibaryon π^+ 5 Abdullin 88D cs		
$^{26}\text{Mg} \text{X}$ 9	Butsev 85	cs						
$^{41}\text{Ar} \text{X}$ 9	Butsev 85	cs						
$^{50}\text{Mn} \text{X}$ 9	Butsev 85	cs						
$^{90}\text{Mo} \text{X}$ 9	Butsev 85	cs						
$^{90}\text{Mo}^* \text{X}$ 9	Butsev 85	cs						
$^{90}\text{Nb} \text{X}$ 9	Butsev 85	cs						
$^{93}\text{Tc} \text{X}$ 9	Butsev 85	cs						

${}^4\text{He C} \rightarrow \text{charged}^- \text{X}$ ${}^4\text{He Pb} \rightarrow p \text{X}$

${}^4\text{He C}$		${}^4\text{He Al}$		${}^4\text{He Au}$	
charged⁻ X		inelastic		Bor X	
9.2	Grigalashvil 88	(399.6)	Tanihata 85		Avdejchikov 87F
16.8	Grigalashvil 88				angp, p
	a-dep, mult	${}^4\text{He } {}^{27}\text{Al}$			Avdejchikov 87H
		inelastic		16.82	a-dep, p
mult[charged] X		0.4323	Dubar 89		Avdejchikov 87G
16.8	Mekhtiev 88				angp, p
	et	${}^4\text{He Cu}$		C X	
mult[charged⁻] X		$\pi^+ \text{X}$		3.373 - 16.82	Avdejchikov 87B
9.2	Grigalashvil 88	2.569 - 5.838	Lhote 87		angp, cs
	a-dep, mult	$\pi^- \text{X}$			Avdejchikov 87F
16.8	Grigalashvil 88	2.569 - 5.838	Lhote 87		angp, p
	a-dep, mult	$p \text{X}$			Avdejchikov 87H
$\pi^0 \text{X}$		19.24	Adyasevich 85B		a-dep, p
4.5	Abraamyan 89	${}^3\text{He X}$		16.82	Avdejchikov 87G
	angp, p, pt	16.51	Abashidze 85B		angp, p
$\pi^+ \text{X}$		${}^4\text{He X}$		Nit X	
2.569 - 5.838	Lhote 87	16.51	Abashidze 85B	3.373 - 16.82	Avdejchikov 87B
	a-dep, mult		a-dep, angp		angp, cs
$\pi^- \text{X}$					Avdejchikov 87F
2.569 - 5.838	Lhote 87	$\pi^+ \text{ mult[gray] X}$			Avdejchikov 87H
	a-dep, mult	5.838	Lhote 89		a-dep, p
16.8	Agakishiev 89B	$\pi^- \text{ mult[gray] X}$		16.82	Avdejchikov 87G
	angp, mult, p	5.838	Lhote 89		angp, p
$p \text{X}$				O X	
4.2	Gulkanyan 88D	${}^4\text{He Zr}$		3.373 - 16.82	Avdejchikov 87B
	a-dep, angp, cor, cs, mult, p	inelastic			angp, cs
19.24	Adyasevich 85B	0.4323	Dubar 89		Avdejchikov 87F
	angp, p				angp, p
${}^3\text{He X}$		${}^4\text{He Mo}$		16.82	Avdejchikov 87H
16.51	Abashidze 85B	inelastic			a-dep, p
	a-dep, angp	0.4323	Dubar 89		Avdejchikov 87G
${}^4\text{He X}$					angp, p
16.51	Abashidze 85B	${}^4\text{He Ag}$		Fl X	
	a-dep, angp	${}^6\text{He X}$		3.373 - 16.82	Avdejchikov 87B
mult[p] X		13.32	Avdejchikov 86		angp, cs
4.2	Gulkanyan 88D	${}^6\text{Li X}$			Avdejchikov 87F
16.8	Baldin 88C	13.32	Avdejchikov 86		angp, p
	angp, cor, pt	${}^7\text{Li X}$		16.82	Avdejchikov 87H
2charged⁺ X		13.32	Avdejchikov 86		a-dep, p
4.2	Angelov 88	${}^6\text{Li X}$			angp, p
2γ X		13.32	Avdejchikov 86		angp, p
4.5	Abraamyan 89				Ne X
	mass	${}^4\text{He Ta}$		3.373 - 16.82	Avdejchikov 87B
$\pi^+ \text{ charged}^+ \text{X}$		charged X			Avdejchikov 87F
4.2	Angelov 88	9.2	Grigalashvil 88		angp, p
	ang, cor		a-dep, mult	16.82	Avdejchikov 87G
$\pi^- \text{ charged}^+ \text{X}$		charged⁻ X			angp, p
4.2	Angelov 88	9.2	Grigalashvil 88		angp, p
	ang, cor		a-dep, mult		Mg X
2π^- X		mult[charged] X		3.373 - 16.82	Avdejchikov 87B
4.2	Angelov 88	9.2	Grigalashvil 88		Avdejchikov 87F
18	Abdurakhimov 88		a-dep, mult	16.82	Avdejchikov 87G
	angp, cor	mult[charged⁻] X			angp, p
$\pi^+ \pi^- \text{X}$		9.2	Grigalashvil 88		angp, p
4.2	Angelov 88		a-dep, mult		${}^3\text{He X}$
$p \text{ charged}^+ \text{X}$		$p \text{X}$		16.51	Abashidze 85B
4.2	Angelov 88	4.2	Gulkanyan 88D		a-dep, angp
	ang, cor		a-dep, angp, cor, cs, mult, p	${}^4\text{He X}$	
$p \pi^- \text{X}$				16.51	Abashidze 85B
4.2	Angelov 88	${}^4\text{He } {}^{181}\text{Ta}$			a-dep, angp
2$p \text{X}$		inelastic		2$p \text{X}$	
4.2	Angelov 88	0.4323	Dubar 89	8	Budilov 90
8	Budilov 90				angp, cor, p
16.8	Pluta 88B	${}^4\text{He Au}$		${}^4\text{He } {}^{197}\text{Au}$	
	angp, cor, p	${}^6\text{He X}$		inelastic	
$\pi^+ \text{ mult[gray] X}$		13.32	Avdejchikov 86	0.4323	Dubar 89
5.838	Lhote 89	${}^6\text{Li X}$			cs
	mult	13.32	Avdejchikov 86	${}^4\text{He Pb}$	
$\pi^- \text{ mult[gray] X}$		${}^7\text{Li X}$		$\pi^+ \text{X}$	
5.838	Lhote 89	13.32	Avdejchikov 86	2.569 - 5.838	Lhote 87
	mult	${}^6\text{Li X}$			a-dep, mult
$p (p^*) \text{X}$		13.32	Avdejchikov 86	$\pi^- \text{X}$	
16.8	Angelov 88	${}^6\text{Li X}$		2.569 - 5.838	Lhote 87
	angp, col	Bor X			a-dep, mult
2$p (p^*) \text{X}$		3.373 - 16.82	Avdejchikov 87B	$p \text{X}$	
16.8	Akhababian 85		angp, cs	19.24	Adyasevich 85B
	cor, mass, p, pt				angp, p
${}^4\text{He Ne}$					
2π^- X					
18	Abdurakhimov 88				
	angp, cor				

$^{12}\text{C C} \rightarrow \pi^+ \text{X}$ $^{12}\text{C } ^{59}\text{Co} \rightarrow ^{57}\text{Ni X}$

$^{12}\text{C C}$		$^{12}\text{C } ^{55}\text{Mn}$		$^{12}\text{C Ni}$	
$\pi^+ \text{X}$ 53.83	Kurepin 88 a-dep. angp	$^{28}\text{Mg X}$	Kozma 88B	$^{52}\text{Mn X}$ 53.83	Kozma 88B
$\pi^- \text{X}$ 18 53.83 54	Gazdzicki 85 angp. pt Kurepin 88 a-dep. angp Gazdzicki 85 angp. pt	$^{42}\text{KK X}$ 53.83	Kozma 88B	$^{52}\text{Fe X}$ 53.83	Kozma 88B
mult[π^-] X 54	Anikina 89 mult	$^{43}\text{KK X}$ 53.83	Kozma 88B	$^{54}\text{Mn X}$ 53.83	Kozma 88B
$\text{K}^+ \text{X}$ 53.83	Kurepin 88 a-dep. angp	$^{43}\text{Sc X}$ 53.83	Kozma 88B	$^{55}\text{Co X}$ 53.83	Kozma 88B
$\text{K}^- \text{X}$ 53.83	Kurepin 88 a-dep. angp	$^{44}\text{Sc X}$ 53.83	Kozma 88B	$^{56}\text{Co X}$ 53.83	Kozma 88B
p X 41.73 54	Adyasevich 87B angp Anikina 85C a-dep. angp. p	$^{46}\text{Sc X}$ 53.83	Kozma 88B	$^{56}\text{Mn X}$ 53.83	Kozma 88B
ΛX 18 54	Gazdzicki 85 angp. pt Gazdzicki 85 angp. pt	$^{47}\text{Sc X}$ 53.83	Kozma 88B	$^{56}\text{Ni X}$ 53.83	Kozma 88B
deuteron X 41.73 54	Adyasevich 87B angp Adyasevich 85C angp. p Anikina 85C a-dep. angp. p	$^{48}\text{Cr X}$ 53.83	Kozma 88B	$^{57}\text{Co X}$ 53.83	Kozma 88B
$^3\text{H X}$ 41.73 54	Adyasevich 87B angp Anikina 85C a-dep. angp. p	$^{48}\text{Sc X}$ 53.83	Kozma 88B	$^{57}\text{Ni X}$ 53.83	Kozma 88B
mult[frag] mult[charged] X 54	Anikina 89 mult	$^{48}\text{Va X}$ 53.83	Kozma 88B	$^{58}\text{Co X}$ 53.83	Kozma 88B
mult[π^-] mult[frag] mult[frag] X 54	Anikina 85 cor. mult	$^{51}\text{Cr X}$ 53.83	Kozma 88B	$^{59}\text{Fe X}$ 53.83	Kozma 88B
$^{12}\text{C Ne}$		$^{52}\text{Mn X}$ 53.83	Kozma 88B	$^{60}\text{Co X}$ 53.83	Kozma 88B
charged X 54	Anikina 86B a-dep. angp. cs. mult	$^{52}\text{Fe X}$ 53.83	Kozma 88B	$^{61}\text{Cu X}$ 53.83	Kozma 88B
$\pi^- \text{X}$ 54	Gazdzicki 85 angp. pt	$^{54}\text{Mn X}$ 53.83	Kozma 88B	$^{65}\text{Zn X}$ 53.83	Kozma 88B
ΛX 54	Gazdzicki 85 angp. pt	$^{56}\text{Co X}$ 53.83	Kozma 88B	frag X 53.83	Kozma 88B
$2\pi^- \text{ fragb X}$ 54	Abdurakhimov 88 angp. cor	$^{56}\text{Mn X}$ 53.83	Kozma 88B	$^{12}\text{C } ^{59}\text{Co}$	
mult[π^-] mult[frag] mult[frag] X 54	Anikina 85 cor. mult	$^{56}\text{Ni X}$ 53.83	Kozma 88B	$^{24}\text{Na X}$ 53.83	Kozma 90B angp. p Kozma 88B
$^{12}\text{C Al}$		$^{57}\text{Co X}$ 53.83	Kozma 88B	$^{28}\text{Mg X}$ 53.83	Kozma 90B angp. p Kozma 88B
p X 54	Anikina 85C a-dep. angp. p	$^{57}\text{Ni X}$ 53.83	Kozma 88B	$^{42}\text{KK X}$ 53.83	Kozma 88B
deuteron X 54	Anikina 85C a-dep. angp. p	$^{58}\text{Co X}$ 53.83	Kozma 88B	$^{43}\text{KK X}$ 53.83	Kozma 88B
$^3\text{H X}$ 54	Anikina 85C a-dep. angp. p	$^{59}\text{Fe X}$ 53.83	Kozma 88B	$^{43}\text{Sc X}$ 53.83	Kozma 88B
$^{12}\text{C } ^{27}\text{Al}$		$^{60}\text{Co X}$ 53.83	Kozma 88B	$^{44}\text{Sc X}$ 53.83	Kozma 88B
inelastic 0.8196 - 2.607 Duhar 89	cs	$^{65}\text{Zn X}$ 53.83	Kozma 88B	$^{46}\text{Sc X}$ 53.83	Kozma 88B
$^{24}\text{Na X}$ 53.83	Dandinsuren 87 cs	frag X 53.83	Kozma 88B	$^{47}\text{Sc X}$ 53.83	Kozma 88B
$^{12}\text{C Si}$		$^{12}\text{C Ni}$		$^{48}\text{Cr X}$ 53.83	Kozma 88B
charged X 54	Anikina 86B a-dep. angp. cs. mult	$^{24}\text{Na X}$ 53.83	Kozma 88B	$^{48}\text{Sc X}$ 53.83	Kozma 88B
$^{12}\text{C } ^{55}\text{Mn}$		$^{28}\text{Mg X}$ 53.83	Kozma 88B	$^{48}\text{Va X}$ 53.83	Kozma 88B
$^{27}\text{Na X}$ 53.83	Kozma 90B angp. p Kozma 88B	$^{42}\text{KK X}$ 53.83	Kozma 88B	$^{51}\text{Cr X}$ 53.83	Kozma 88B
$^{28}\text{Mg X}$ 53.83	Kozma 90B angp. p	$^{43}\text{KK X}$ 53.83	Kozma 88B	$^{52}\text{Mn X}$ 53.83	Kozma 88B
		$^{43}\text{Sc X}$ 53.83	Kozma 88B	$^{52}\text{Fe X}$ 53.83	Kozma 88B
		$^{44}\text{Sc X}$ 53.83	Kozma 88B	$^{54}\text{Mn X}$ 53.83	Kozma 88B
		$^{46}\text{Sc X}$ 53.83	Kozma 88B	$^{55}\text{Co X}$ 53.83	Kozma 88B
		$^{47}\text{Sc X}$ 53.83	Kozma 88B	$^{56}\text{Co X}$ 53.83	Kozma 88B
		$^{48}\text{Cr X}$ 53.83	Kozma 88B	$^{56}\text{Ni X}$ 53.83	Kozma 88B
		$^{48}\text{Sc X}$ 53.83	Kozma 88B	$^{57}\text{Co X}$ 53.83	Kozma 88B
		$^{48}\text{Va X}$ 53.83	Kozma 88B	$^{57}\text{Ni X}$ 53.83	Kozma 88B
		$^{51}\text{Cr X}$ 53.83	Kozma 88B		

$^{12}\text{C } ^{59}\text{Co} \rightarrow ^{58}\text{Co X}$ $^{12}\text{C } ^{197}\text{Au} \rightarrow \text{Te X}$

$^{12}\text{C } ^{59}\text{Co}$			$^{12}\text{C Cu}$			$^{12}\text{C Ag}$		
$^{58}\text{Co X}$ 53.83	Kozma 88B	cs	deuteron X 41.73	Adyasevich 87B angp Adyasevich 85C angp, p Anikina 85C		Yt X 53.83	Kozma 90	cs
$^{59}\text{Fe X}$ 53.83	Kozma 88B	cs	54	a-dep, angp, p		Zr X 53.83	Kozma 90	cs
$^{60}\text{Co X}$ 53.83	Kozma 88B	cs	$^3\text{H X}$ 41.73	Adyasevich 87B angp Anikina 85C		Nb X 53.83	Kozma 90	cs
$^{65}\text{Zn X}$ 53.83	Kozma 88B	cs	54	a-dep, angp, p		Mo X 53.83	Kozma 90	cs
frag X 53.83	Kozma 88B	cs	frag X 53.83	Kozma 88B	cs	Te X 53.83	Kozma 90	cs
$^{12}\text{C Cu}$			$^{12}\text{C } ^{64}\text{Cu}$			$^{12}\text{C } ^{108}\text{Ag}$		
charged X 54	Anikina 86B a-dep, angp, cs, mult		$2\pi^-$ fragb X 53.95	Abdurakhimov 89 Abdurakhimov 88 angp, cor angp, cor		$^{24}\text{Na X}$ 53.83	Kozma 90B	angp, p
$^{24}\text{Na X}$ 53.83	Kozma 88B	cs	54	angp, cor		$^{28}\text{Mg X}$ 53.83	Kozma 90B	angp, p
$^{28}\text{Mg X}$ 53.83	Kozma 88B	cs	mult[π^-] mult[fragt] mult[fragb] X 54	Anikina 85 cor, mult		$^{12}\text{C Sn}$		
$^{42}\text{KK X}$ 53.83	Kozma 88B	cs	$^{12}\text{C } ^{89}\text{Yt}$			p X 41.73		
$^{43}\text{KK X}$ 53.83	Kozma 88B	cs	$^{24}\text{Na X}$ 53.83	Kozma 90B	angp, p	deuteron X 41.73		
$^{43}\text{Sc X}$ 53.83	Kozma 88B	cs	$^{28}\text{Mg X}$ 53.83	Kozma 90B	angp, p	$^3\text{H X}$ 41.73		
$^{44}\text{Sc X}$ 53.83	Kozma 88B	cs	inelastic 0.8196 Dubar 89 0.8196 - 2.607 Dubar 89			$^{12}\text{C Ta}$		
$^{46}\text{Sc X}$ 53.83	Kozma 88B	cs	$^{12}\text{C Zr}$			charged X 50.4		
$^{47}\text{Sc X}$ 53.83	Kozma 88B	cs	charged X 54			mult[charged] X 50.4		
$^{48}\text{Cr X}$ 53.83	Kozma 88B	cs	Anikina 86B a-dep, angp, cs, mult			$^{24}\text{Na X}$ 53.83		
$^{48}\text{Sc X}$ 53.83	Kozma 88B	cs	$^{12}\text{C Ag}$			$^{28}\text{Mg X}$ 53.83		
$^{48}\text{Va X}$ 53.83	Kozma 88B	cs	inelastic 53.83			Kozma 90		
$^{51}\text{Cr X}$ 53.83	Kozma 88B	cs	Ru X 53.83	Kozma 90	cs	π^- X 50.4		
$^{52}\text{Mn X}$ 53.83	Kozma 88B	cs	Rh X 53.83	Kozma 90	cs	fragt X 53.83		
$^{52}\text{Fe X}$ 53.83	Kozma 88B	cs	Pd X 53.83	Kozma 90	cs	grey X 50.4		
$^{54}\text{Mn X}$ 53.83	Kozma 88B	cs	Ag* X 53.83	Kozma 90	cs	mult[fragb] X 50.4		
$^{55}\text{Co X}$ 53.83	Kozma 88B	cs	Na X 53.83	Kozma 90	cs	mult[grey] X 50.4		
$^{56}\text{Co X}$ 53.83	Kozma 88B	cs	Mg X 53.83	Kozma 90	cs	2hadron (hadrons) 50.4		
$^{56}\text{Mn X}$ 53.83	Kozma 88B	cs	KK X 53.83	Kozma 90	cs	$^{12}\text{C } ^{181}\text{Ta}$		
$^{56}\text{Ni X}$ 53.83	Kozma 88B	cs	Sc X 53.83	Kozma 90	cs	$^{24}\text{Na X}$ 53.83		
$^{57}\text{Co X}$ 53.83	Kozma 88B	cs	Mn X 53.83	Kozma 90	cs	$^{28}\text{Mg X}$ 53.83		
$^{57}\text{Ni X}$ 53.83	Kozma 88B	cs	$^{58}\text{Co X}$ 53.83	Kozma 90	cs	2frag (frags) 53.83		
$^{58}\text{Co X}$ 53.83	Kozma 88B	cs	Fe X 53.83	Kozma 90	cs	Damdinsuren 88		
$^{59}\text{Fe X}$ 53.83	Kozma 88B	cs	$^{57}\text{Co X}$ 53.83	Kozma 90	cs	$^{12}\text{C Au}$		
$^{60}\text{Co X}$ 53.83	Kozma 88B	cs	Zn X 53.83	Kozma 90	cs	$^{37}\text{Ar X}$ 25		
$^{61}\text{Cu X}$ 53.83	Kozma 88B	cs	Ga X 53.83	Kozma 90	cs	fragt X 25 - 48		
$^{65}\text{Zn X}$ 53.83	Kozma 88B	cs	As X 53.83	Kozma 90	cs	Hufner 85		
π^- X 53.83	Baldin 88	angp	Se X 53.83	Kozma 90	cs	Hufner 85		
p X 41.73 54	Adyasevich 87B angp Anikina 85C		Br X 53.83	Kozma 90	cs	$^{12}\text{C } ^{197}\text{Au}$		
	a-dep, angp, p		Kr X 53.83	Kozma 90	cs	inelastic 53.83		
			Rb X 53.33	Kozma 90	cs	Kozma 90		
						Kozma 88		
						Rh X 53.83		
						Kozma 90		
						Kozma 88		
						Sb X 53.83		
						Kozma 90		
						Kozma 88		
						Te X 53.83		
						Kozma 90		

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

^{12}C nucleus \rightarrow mult[grey] XC C $\rightarrow 2\pi^-$ X

^{12}C nucleus	^{12}C nucleus	C C
mult[grey] X	mult[grey] shower X 54 Ghosh 86 mult	π^- X Grishin 87 mult, p Simich 86 mult, p Ameev 85 angp, p, pt Armutlijsky 85 angp, p, pt Agakishiev 84B angp, mult, p, pt Agakishiev 84E angp, mult, p, pt Armutlijsky 84 angp, p, pt
mult[shower] X 54	Babaev 90 ang Ghosh 89D mult, p Khan 88 a-dep, mult	π X 50.4 Gulkanyan 88C mult, p
shower X 54	Khan 88 a-dep, angp, mult	mult[π^-] X 50.4 Agakishiev 89C angp, mult, p, pt
? 54	Ghosh 86	K_S X 50.4 Agakishiev 85 angp, cs, mult, p, pt
0A charged $^-$ X 54	Anikina 86D angp, mult	p X 4.2 Gulkanyan 88D a-dep, angp, cor, cs, mult, p Stock 87 angp Hamagaki 85 angp Schurman 87 angp, p Adyasevich 85 a-dep, cs, p Kanarek 88 angp, p Armutlijsky 87C col, mult
$e^- e^+$ X 54	Elnadi 88 mass	Λ X 50.4 Agakishiev 85 angp, cs, mult, p, pt
p π^+ X 50.4	Grishin 88B mass	n (fragb) mult[charged $^+$] mult[charged $^-$] X 50.4 Bekmirzaev 88C mult
Λ charged $^-$ X 54	Anikina 86D angp, mult	C C charged X 27.6 Grigalashvil 89 a-dep, mult 50.4 Mekhtiev 88 et, mult Bialkowska 86 p, pt
p Σ^- X 50.4	Shahbazyan 88 cs, mass	charged $^-$ X 27.6 Grigalashvil 88 a-dep, mult 50.4 Grigalashvil 88 a-dep, mult
2 Λ X 50.4	Shahbazyan 88 cs, mass	mult[charged] X 50.4 Agakishiev 89C mult 50.4 Agakishiev 89C mult
fragb charged $^-$ X 54	Anikina 86D angp, mult	mult[charged $^+$] X 50.4 Agakishiev 89C mult
fragb mult[charged] X 4.5	Khan 89 mult	mult[charged $^-$] X 27.6 Grigalashvil 88 a-dep, mult 50.4 Agakishiev 89C mult Grigalashvil 88 a-dep, mult
fragb mult[charged $^-$] X 54	Anikina 86D angp, angp, mult, p, pt	γ X 50.4 Gulkanyan 88B p, pt
mult[htrack] shower X 54	Khan 88 cor, mult	π^0 X 50.4 Gulkanyan 88B p, pt Gulkanyan 88C mult, p
p (p/\bar{p}) X 54	Ghosh 87 angp, mult	π^+ X 50.4 Gulkanyan 88C mult, p Simich 86 mult, p Ameev 85 angp, p, pt
anomalon fragt X 53.95	Bayman 87	π^- X 17.74 Stock 87 mult 50.4 Baatar 90 angp, et, p, pt Agakishiev 89B angp, mult, p Gulkanyan 88B p, pt Gulkanyan 88C mult, p Kanarek 88 angp
black grey X 90.2 - 99	Antonchik 87 angp, mult, p, pt	2charged $^+$ X 4.2 Angelov 88 ang, cor
black mult[black] X 54	Ghosh 86 mult	π^+ charged X 50.4 Agakishiev 86B mult
black mult[grey] X 54	Khan 88 cor, mult Ghosh 86 mult	π^+ charged $^+$ X 4.2 Angelov 88 ang, cor
black mult[shower] X 54	Ghosh 86 mult	π^- charged X 50.4 Agakishiev 86B angp, mult, p, pt
grey mult[shower] X 54	Ghosh 86 mult	π^- charged $^+$ X 4.2 Angelov 88 ang, cor
htrack mult[black] X 54	Ghosh 86 mult	π^- mult[charged] X 50.4 Agakishiev 89 angp, et
htrack mult[grey] X 54	Ghosh 86 mult	2 π^- X 4.2 Angelov 88 ang, cor
htrack mult[shower] X 54	Khan 88 cor, mult Ghosh 86 mult	
mult[black] grey X 54	Ghosh 86 mult	
mult[black] mult[fragb] X 54	Babaev 90 ang	
mult[black] mult[grey] X 54	Babaev 90 ang	
mult[black] mult[shower] X 54	Babaev 90 ang	
mult[black] shower X 54	Ghosh 86 angp, mult	
mult[grey] mult[fragb] X 54	Babaev 90 ang	
mult[grey] mult[shower] X 54	Babaev 90 ang	

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

CC			CCu			CTa		
$\pi^+ \pi^- X$ 4.2	Angelov 88	ang. cor	$^3\text{H} X$ 54	Anikina 86C	angp	K_S charged $^+ X$ 50.4	Jovchev 85	mult
$\pi^0 \text{mult}[\pi^-] X$ 50.4	Gulkanyan 87C	cor. mult	C Zr			K_S charged $^- X$ 50.4	Jovchev 85	mult
$\pi^- \text{mult}[\pi^-] X$ 50.4	Agakishiev 89	angp, mult	$\pi^- X$ 17.74	Stock 87	mult	$K_S \pi^0 X$ 50.4	Jovchev 85	mult
p charged X 50.4	Agakishiev 86B	angp. mult. p, pt	ΛX 53.22 54	Stock 87 Anikina 85B	angp angp. pol	$p \pi^- X$ 50.4	Gasparyan 84B	angp. mult. p, pt
p charged $^+ X$ 4.2	Angelov 88	ang. cor	C Sn			Λ charged $^+ X$ 50.4	Jovchev 85	mult
$p \pi^- X$ 4.2 50.4	Angelov 88 Gulkanyan 88	ang. cor ang. angp. cor. p, pt	$p X$ 41.73	Adyasevich 85	a-dep. cs, p	Λ charged $^- X$ 50.4	Jovchev 85	mult
$2p X$ 4.2 50.4	Angelov 88 Pluta 88B Zielinsky 88 Grishin 87 Armutlijsky 86B Agakishiev 84E	ang. cor angp. cor. p cs, mass p cor mass	C Ta			$\Lambda \pi^0 X$ 50.4	Jovchev 85	mult
$\pi^- \text{0fragb} X$ 50.4	Agakishiev 89B	angp. mult. p	inelastic 50.4	Batskovich 88	cs	$p(\text{spect}) K_S X$ 50.4	Jovchev 85	mult
$\text{mult}[p] \pi^- X$ 50.4	Agakishiev 89	angp. p	charged X 27.6	Grigalashvili 88	a-dep. mult	$2p X$ 50.4	Gasparyan 84B	angp. mult. p, pt
γ anomalon X 50.4	Cheplakov 85	p	50.4	Batskovich 88 Bialkowska 86 Kutsidi 86	cor. mult p, pt mult	$p(\text{spect}) \Lambda X$ 50.4	Jovchev 85	mult
γ frag X 50.4	Cheplakov 85	p	charged $^- X$ 27.6	Grigalashvili 88	a-dep. mult	$\text{mult}[\pi^0] \text{mult}[\text{grey}] X$ 50.4	Gulkanyan 87B	mult
π hadron X 4.2	Lyubimov 88	col	$\text{mult}[\text{charged}] X$ 27.6	Grigalashvili 88	a-dep. mult	K_S fragb X 50.4	Jovchev 85	mult
$\text{mult}[\gamma] \text{mult}[\text{fragb}] X$ 50.4	Gulkanyan 87C	mult	50.4	Mekhtiev 88 Kutsidi 86 Batskovich 88	a-dep. mult et mult cor. mult	Λ fragb X 50.4	Jovchev 85	mult
$\text{mult}[\pi^0] \text{mult}[\text{fragb}] X$ 50.4	Gulkanyan 87C	mult	$\text{mult}[\text{charged}^-] X$ 27.6	Grigalashvili 88	a-dep. mult	$\text{mult}[\pi^-] (\text{fragb}) \text{mult}[\text{charged}] X$ 50.4	Batskovich 88	angp. cor. mult
$p (p's) X$ 50.4	Angelov 88	angp. col	γX 50.4	Gulkanyan 88B	p, pt	C Pb		
$2\text{fragb} X$ 4.2	Angelov 88	ang. cor	$\pi^0 X$ 50.4	Gulkanyan 88B Gulkanyan 88C Gulkanyan 87D	p, pt mult, p mult	$\pi^- X$ 17.74	Stock 87	mult
$p \text{mult}[\text{charged}] (\text{neutrals})$ 50.4	Ameev 85	mult. p	$\pi^+ X$ 50.4	Gulkanyan 88C	mult. p	$p X$ 41.73	Adyasevich 85	a-dep. cs, p angp
$2p (p's) X$ 50.4	Agakishiev 89C	angp. mult. p, pt	$\pi^- X$ 50.4	Batskovich 88 Gulkanyan 88B Gulkanyan 88C Gulkanyan 87D Armutlijsky 85	cor. mult p, pt mult, p mult a-dep. angp. p	ΛX 53.22 54	Stock 87 Anikina 85B	angp angp. pol
$3p (p's) X$ 4.2	Lyubimov 88	col	πX 50.4	Gulkanyan 88C	mult. p	deuteron X 54	Anikina 86C	angp
C Ne			$\text{mult}[\gamma] X$ 50.4	Gulkanyan 88C	p, pt	$^3\text{H} X$ 54	Anikina 86C	angp
$\pi^- X$ 17.74	Stock 87	mult	$\text{mult}[\pi^+] X$ 50.4	Gulkanyan 88C	p, pt	$2p X$ 41.73	Adyasevich 89	angp. cor
ΛX 53.22 54	Stock 87 Anikina 85B	angp angp. pol	$\text{mult}[\pi^-] X$ 50.4	Gulkanyan 88C	p, pt	γ fragb 400charged X (> 2643)	Burnett 86	angp. p, pt
C Si			$K_S X$ 50.4	Jovchev 85	angp. p, pt	C nucleus		
$\pi^- X$ 17.74	Stock 87	mult	$p X$ 4.2	Gulkanyan 88D Armutlijsky 89	a-dep. angp. cor. cs. mult. p a-dep. angp. mult. p, pt	inelastic 2411	Baroni 90	cs
C Cu			50.4	Gasparyan 85 Gasparyan 84B	angp. p angp. mult. p, pt	$p X$ 23.01	Antonchik 90B	angp. mult. p
$\pi^- X$ 17.74	Stock 87	mult	ΛX 50.4	Panagiotou 89	p, pol. pt	$p \pi^- X$ 11.42 - 38.39	Stock 87	mult
$p X$ 54	Anikina 56C	angp	$\text{fragb} X$ 50.4	Batskovich 88	cor. mult	$\text{mult}[p] \text{mult}[\pi^+] \text{mult}[\pi^-] X$ 53.96	Okonov 88	cor. mult
ΛX 53.22 54	Stock 87 Anikina 85B	angp angp. pol				$^{13}\text{Bor Be}$		
deuteron X 54	Anikina 86C	angp				inelastic 18.82	Tanihata 88	a-dep. cs
						$^{13}\text{Bor C}$		
						inelastic 18.82	Tanihata 88	a-dep. cs
						$^{13}\text{Bor Al}$		
						inelastic 18.82	Tanihata 88	a-dep. cs

$^{16}\text{O Au} \rightarrow \bar{A} X$ $^{16}\text{O nucleus} \rightarrow \text{mult}[\text{char}^{m-1}] (\text{neutrals})$

$^{16}\text{O Au}$		$^{16}\text{O Au}$		$^{16}\text{O }^{238}\text{U}$	
$\bar{A} X$	Pugh 89	pt	hadron mult[charged] X (1102) Albrecht 89M	$2\mu^- X + 2\mu^+ X$ (1214)	onderegger 88
baryon X 974.8 (625.8 - 1102)	Schmidt 88 Albrecht 90C	p	π^0 hadron X (1102)	$2\mu^+$ (neutrals) X (1214)	Sonderegger 88
(1102)	Schmidt 88	a-dep, et, p mult, p	π^0 mult[hadron] X (1102)	$2\mu^-$ (neutrals) X (1214)	Sonderegger 88
deuteron X (1102)	Schmidt 88	mult	fragb fragb X (1102)	$2\mu^-$ (neutrals) X + $2\mu^+$ (neutrals) X 974.8	Sonderegger 88
mult[p] X 3.08	Machner 85	p	$3\pi^- X$ (1102)	$^{24}\text{Na } 2\text{frag} (\text{frags})$ (694 - 1214)	Aleklett 87
fragb X (1102)	Tannenbaum: 89	p	$^{16}\text{O }^{197}\text{Au}$	$^{44}\text{Sc } 2\text{frag} (\text{frags})$ (694 - 1214)	Aleklett 87
hadron X 974.8 (625.8 - 1102)	Heck 88 Heck 88 Lund 88 Pugh 88 Sorensen 88 Schmidt 87 Albrecht 90C Odyniec 89 Heck 88 Schmidt 87 Tannenbaum 87 Bamberger 86	p et cs et, p cs, et, p et p p p et	$^{196}\text{Au X}$ (627.4 - 1104) Hill 88	$^{46}\text{Sc } 2\text{frag} (\text{frags})$ (694 - 1214)	Aleklett 87
(1102)	Heck 88 Pugh 88 Sorensen 88 Schmidt 87 Albrecht 90C Odyniec 89 Heck 88 Schmidt 87 Tannenbaum 87 Bamberger 86	p et cs et, p cs, et, p et p p p et	$^{16}\text{O Hg}$	$^{48}\text{Sc } 2\text{frag} (\text{frags})$ (694 - 1214)	Aleklett 87
mult[hadron] X (625.8 - 1102)	Tannenbaum 89	et, p	q X	$^{16}\text{O U}$	
mult[neutral] X 14.5 (625.8 - 1102)	Tannenbaum 89 Tannenbaum 89	et, p et, p	231.5 974.8 - 1935	$J/\psi(1S) X$ (1215)	Baglin 89 London 89 Sonderegger 89
charged neutral X 232	Remsberg 88	cor, mult, p	$^{16}\text{O Pb}$	$\mu^- \mu^+ X$ (1215)	Baglin 89 London 89 Sonderegger 89
2charged⁻ X (1102)	Pugh 88	angp, cor	inelastic (643.3 - 1131) Barnes 88	$2\mu^- X + 2\mu^+ X$ (1215)	Baglin 89 Sonderegger 89
γ mult[charged] X (625.8 - 1102)	Lohner 88	mult, pt	charged X 72		
$2\gamma X$ (1102)	Lund 89 Albrecht 88B Lohner 88 Schmidt 87	mass, pt mass mass mass	mult[charged] (neutrals) (643.3 - 1131) Brechtmann 88B		
$\mu^- \mu^+ X$ (1102)	Bartke 89	et, pt	$J/\psi(1S) X$ (1131)		
$2\pi^- X$ (1102)	Odyniec 89 Bamberger 88 Humanic 88	angp, cor cor angp, cor, p	frag X (643.3 - 1131) Brechtmann 88B		
$\pi^+ \pi^- X$ (625.8 - 1102)	Bamberger 89 Vesztegombi 88	mass mass	fragb X (1131)		
$p \pi^- X$ (625.8 - 1102)	Bamberger 89 Vesztegombi 88	mass mass	hadron X (1131)		
$\bar{p} \pi^+ X$ (625.8 - 1102)	Bamberger 89 Vesztegombi 88	mass mass	mult[hadron] X (1131)		
$\bar{A} \pi^+ X$ (625.8 - 1102)	Bamberger 89	mult, p, pt	q X (364.4 - 1131) Hoffmann 88 (1131) Gerbier 87		
γ hadron X (625.8 - 1102)	Lohner 88	p, pt	shower X (643.3 - 1131) Barnes 88		
γ mult[hadron] X (1102)	Lund 89	angp, p	$\mu^- \mu^+ X$ (1131)		
hadron charged X (1102)	Albrecht 89M Lund 88 Pugh 88	cor, et, p p cor, mult, p	$2\mu^- X + 2\mu^+ X$ (1131)		
hadron charged⁻ X (625.8 - 1102)	Strobele 88	cor, cs, et, mult, p, pt	$J/\psi(1S) \text{ neutral X}$ (1131)		
			hadron charged X (1131)		
			$\mu^- \mu^+ \text{ neutral X}$ (1131)		
			$2\mu^- \text{ neutral X} + 2\mu^+ \text{ neutral X}$ (1131)		
			mult[π^-] mult[fragt] mult[fragb] X 72		
			$^{16}\text{O }^{238}\text{U}$		
			$2\mu^+ X$ (1214)		
			$2\mu^- X$ (1214)		
				$^{16}\text{O nucleus}$	
				X	
				44.47 - 3215	Otterlund 88
				248.1 - 3215	Adamovich 88B
				3215	Ramello 88
				inelastic	
				43.94 - 3200	London 89
				44.47	Judek 86
				248.1 - 3215	Barbier 88B
				974.8 - 3215	Sengupta 89B
					Bamberger 88B
					Singh 88
					Baroni 90
					Romano 89
					Ramello 88
				charged X	
				974.8 - 3215	Bamberger 88B
				3215	Akesson 90
					cor, et, mult, p
					London 89
					a-dep, p
					Romano 89
					et, mult, p
					Ramello 88
					et, p, pt
					Jain 87
				charged⁻ X	
				72	Anikina 86D
				974.8 - 3215	Bamberger 88B
					et, mult, p
				mult[charged] X	
				974.8 - 3215	Sengupta 88
				3215	Holynski 89
				mult[charged⁻] X	
				72	Anikina 86D
				neutral X	
				232	Remsberg 88
					Tannenbaum 88
				mult[charged] (neutrals)	
				974.8 - 3215	Buschbeck 89
					mult, p
					Brechtmann 89B

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

^{16}O nucleus \rightarrow mult[γ] XO Cu \rightarrow mult[charged] (neutrals)

^{16}O nucleus			^{16}O nucleus			^{16}O nucleus		
mult[γ] X			shower X			htrack mult[fragb] X		
232	Abbott 87	p	44.47	Judek 86	angp, mult	3215	Ramello 88	mult
246.5	Tannenbaum 87	p	46.15 - 3215	Adamovich 90	mult	shower mult[shower] X		
mult[htrack] X			230 - 3200	Adamovich 89B	mult	3215	Adamovich 88	p
248.1 - 974.8	Adamovich 88D	mult	248.1 - 974.8	Bartke 89	p	2shower X		
3215	Otterlund 88	mult	248.1 - 3215	Adamovich 88D	mult, p	46.15	Ghosh 89B	cor, p
	Ramello 88	mult		Tannenbaum 89	p	nucleus ^{12}C ^4He		
^4He X			974.8 - 3215	Adamovich 88B	mult, p	974.8 - 3215	Ardito 87	cs
974.8 - 3215	Ardito 87	cs	3215	Jain 90	p	nucleus ^{16}O n p		
He X				Singh 88	mult, p	974.8 - 3215	Ardito 87	ang, cs, pt
974.8	Sengupta 89	mult	black X + grey X	Tetryakova 88	p, mult	3215	Baroni 90	cs, p
974.8 - 3215	Sengupta 89B	cs	974.8 - 3215	Ardito 87	mult	nucleus C He		
3215	Otterlund 88	mult	shower X + fragb X			3215	Baroni 90	cs, p
	Singh 88B	angp, mult	248.1 - 3215	Adamovich 88C	angp, p	^2He black X		
Ofragb X			3215	Romano 89	cs	974.8 - 3215	Ardito 87	cs
974.8 - 3215	Sengupta 89B	cs	nucleus mult[fragb]			^3He X		
charm X			3215	Romano 89	cs	974.8 - 3215	Ardito 87	cs
3215	Aoki 89	cs	OA charged $^-$ X			mult[htrack] black (fragbs) X		
mult[He] X			72	Anikina 86D	angp, mult	3215	Tetryakova 88	mult
974.8	Sengupta 89	cs	nucleus Li X			mult[htrack] grey (fragbs) X		
974.8 - 3215	Sengupta 89B	cs, mult	3215	Baroni 90	cs, p	3215	Tetryakova 88	mult
anomaly X			nucleus Be X			mult[htrack] shower (fragbs) X		
46.15	Bayman 87	-	3215	Baroni 90	cs, p	3215	Tetryakova 88	mult
72	Avdejchikov 85	cs	$2\pi^-$ X			shower mult[shower] Ofragb X		
black X			3215	London 89	angp, cor, pt	974.8 - 3215	Singh 89	cor, mult, p
974.8 - 3215	Ardito 87	cor, cs	A charged $^-$ X			charm mult[shower] fragb X		
3215	Adamovich 89C	mult	72	Anikina 86D	angp, mult	3215	Aoki 89	cs, mult
	Ramello 88	angp, rault	He mult[htrack] X			htrack mult[shower] fragb X		
	Tetryakova 88	mult	974.8	Sengupta 89	mult	248.1 - 3215	Barbier 88B	mult
frag X			3215	Singh 88B	cs	htrack shower fragb X		
974.8 - 3215	Brechtmann 88B	cs	^2He X			248.1 - 3215	Barbier 88B	cs, mult, p
fragb X			974.8 - 3215	Ardito 87	cs	3215	Otterlund 88	p
72	Avdejchikov 85	cs	mult[He] mult[htrack] X			3shower X		
974.8 - 3215	Ardito 87	cs	974.8	Sengupta 89	cs	46.15	Ghosh 89B	cor, p
3215	Romano 89	angp, p	fragb charged X			nucleus C 2p		
	Otterlund 88	cs	3215	London 89	cor, mult, p	3215	Baroni 90	cs, p
fragt X			72	Anikina 86D	angp, mult	nucleus Bor He p		
974.8 - 3215	Ardito 87	mult	fragb charged $^-$ X			3215	Baroni 90	cs, p
grey X			72	Anikina 86D	angp, mult	^3He black X		
90.2 - 99	Antonchik 87	angp, mult, p, pt	fragb mult[charged $^-$] X			974.8 - 3215	Ardito 87	cs
248.1 - 3215	Adamovich 89D	angp, mult, cor	72	Anikina 86D	angp, angp, mult, mult, p, pt	^4He X		
974.8 - 3215	Ardito 87	angp, mult	mult[htrack] fragb X			974.8 - 3215	Ardito 87	cs
3215	Adamovich 89C	mult	3215	Otterlund 88	mult	4shower X		
	Tetryakova 88	mult	mult[htrack] mult[shower] X			46.15	Ghosh 89B	cor, p
htrack X			248.1 - 974.8	Adamovich 88D	mult	nucleus Bor 3p		
44.47	Judek 86	angp, mult	mult[htrack] shower X			3215	Baroni 90	cs, p
3215	Ramello 88	angp, mult	248.1 - 974.8	Adamovich 88D	mult, p	nucleus 4He		
mult[black] X			248.1 - 3215	Adamovich 88B	cor, mult, p	3215	Baroni 90	cs, p
248.1 - 974.8	Adamovich 88D	mult	^4He black X			^4He black X		
3215	Adamovich 89C	mult	974.8 - 3215	Ardito 87	cs	974.8 - 3215	Ardito 87	cs
mult[fragb] X			mult[shower] Ofragb X			nucleus 3He 2p		
3215	Ramello 88	mult	974.8 - 3215	Romano 89	mult	3215	Baroni 90	cs, p
mult[grey] X			3215	Jain 90B	cor, mult, p	nucleus 2He 4p		
46.15 - 3215	Adamovich 89D	mult	shower Ofragb X			3215	Baroni 90	cs, p
3215	Adamovich 89C	mult	974.8 - 3215	Jain 90	mult, p	nucleus He 6p		
mult[neutral] X			^{15}Nit p X			3215	Baroni 90	cs, p
14.5	Tannenbaum 89	et, p	3215	Ramello 88	pt	O C		
mult[shower] X			^{16}O n X			mult[charged] (neutrals)		
248.1 - 3215	Adamovich 89E	cor, mult, p	7.761 - 3200	Bartke 89	a-dep, cs	(148.9 - 268.9) Ritter 88		et, mult
	Adamovich 88C	mult	black fragb X			O Ne		
	Otterlund 88	mult	974.8 - 3215	Ardito 87	cs	π^- X		
	Jain 90	mult	black grey X			70.95	Stock 87	mult
	Holynski 89B	cor, mult, p	90.2 - 99	Antonchik 87	angp, mult, p, pt	A X		
	Singh 88	ang, cor, mult, p	grey mult[shower] X			70.95	Stock 87	angp
	Romano 89	et, mult	248.1 - 3215	Adamovich 89D	mult	72	Anikina 85B	angp, pol
	Adamovich 88	mult	grey shower X			O Cu		
	Stenlund 88	mult	3215	Otterlund 88	cor, mult	mult[charged] (neutrals)		
ang, angp, cor, cor, mult, mult, p, p	Tetryakova 88	cor, mult, p				(345.2 - 620) Ritter 88		et, mult

O Ag →mult[charged] (neutrals)

Ne Pb →2charged (charged) (neutrals)

O Ag				¹⁹Ft Wt			²⁰Ne nucleus		
mult[charged] (neutrals) (454.1 – 810.2) Ritter 88	et, mult			fragb X 76	Golovin 88	cs	mult[p] mult[charged] X 16.11	Aggarwal 85B	angp, cs, p
O Wt				¹⁹Ft Bi			fragb mult[charged ⁻] X 90	Anikina 86D	angp, mult, p, pt
mult[charged] (neutrals) (1063) Ritter 88	et, mult			fragb X 76	Golovin 88	cs	Nit 2Li X 16.11	Aggarwal 85B	angp, cs, p
O Au				¹⁹Ft U			2Li He X 16.11	Aggarwal 85B	angp, cs, p
mult[charged] (neutrals) (625.8 – 1102) Ritter 88 (1102) Ritter 88	et, mult et, mult			fragb X 76	Golovin 88	cs	20Ne Ne charged X 90	Anikina 86B a-dep, angp, cs, mult	
O Pb				²⁰Ne ²⁷Al			Nit Li He X 16.11	Aggarwal 85B	angp, cs, p
π ⁻ X 70.95	Stock 87	mult		inelastic: 1.058 – 3.357	Dubar 89	cs	mult[He] 2frag (frags) 16.11	Aggarwal 85B	angp, cs, p
A X 70.95 72	Stock 87 Panagiotou 89	angp		²⁰Ne Zr			mult[p] 2frag (frags) 16.11	Aggarwal 85B	angp, cs, p
	Anikina 85B	p, pol, pt angp, pol		charged X 90	Anikina 86B a-dep, angp, cs, mult		Nit Li 2He X 16.11	Aggarwal 85B	angp, cs, p
O U				²⁰Ne Ag			mult[He] 6charged X 16.11	Aggarwal 85B	angp, cs, p
ω mult[charged] (neutrals) + ρ ⁰ mult[charged] (neutrals) (1212) Abreu 89	cs			inelastic 3.357	Dubar 89	cs	mult[p] 6charged X 16.11	Aggarwal 85B	angp, cs, p
φ mult[charged] (neutrals) (1212) Abreu 89	cs			²⁰Ne Ta					
μ ⁻ μ ⁺ mult[charged] (neutrals) (1212) Abreu 89	et, mass			fragt X 8	Hufner 85	p	Ne f ₂ (1270)		
O nucleus				²⁰Ne Au			π ⁺ X 29.28	Gosset 89	angp, p
p X 30.67	Antonchik 90B	angp, mult, p		fragt X 7.6	Hufner 85	p	π ⁻ X 29.28	Gosset 89	angp, p
mult[p] mult[π ⁺] mult[π ⁻] X 71.94	Okonov 88	cor, mult		²⁰Ne ¹⁹⁷Au			Ne Na		
Fl C				p X 3.842 – 3.881	Machner 85	p	π ⁺ X 29.28	Gosset 89	angp, p
inelastic 79.8	Grigalashvil 88	cs		²⁰Ne nucleus			π ⁻ X 29.28	Gosset 89	angp, p
charged ⁻ X 79.8	Grigalashvil 88	a-dep, mult		mult[charged] X 16.11	Aggarwal 85B	angp, cs, p	n X 18.81 – 29.04	Madey 85	angp, p
mult[charged ⁻] X 79.8	Grigalashvil 88	a-dep, mult		π ⁻ X 55.59	Shor 89	angp	Ne Nb		
¹⁹Ft C				K ⁻ X 55.59	Shor 89	angp	π ⁺ X 29.23	Gosset 89	angp, p
fragb X 76	Golovin 88	cs		p X 16.11	Aggarwal 85B	angp, cs, p	π ⁻ X 29.28	Gosset 89	angp, p
¹⁹Ft Mg				²⁰Ne nucleus			Ne Au		
charged ⁻ X 85.5	Anikina 89	mult		mult[charged] X 16.11	Aggarwal 85B	angp, cs, p	fragt X 5 – 42	Hufner 85 Hufner 85	p p
mult[charged ⁻] X 85.5	Anikina 89	mult		π ⁻ X 55.59	Shor 89	angp	Ne Pb		
mult[π ⁻] X 85.5	Anikina 89	mult		He X 16.11	Aggarwal 85B	angp, cs, p	charged X 19.09 – 29.28	Bastid 89	angp, p
mult[frag] mult[charged] X 85.5	Anikina 89	mult		mult[He] X 16.11	Aggarwal 85B	angp, cs, p	mult[charged] (neutrals) 19.09 – 29.28	Bastid 89	mult
¹⁹Ft Al				mult[p] X 16.11	Aggarwal 85B	angp, cs, p	π ⁺ X 29.28	Gosset 89	angp, p
fragb X 76	Golovin 88	cs		mult[He] mult[neutral] 16.11	Aggarwal 85B	angp, cs, p	π ⁻ X 29.28	Gosset 89	angp, p
¹⁹Ft Cu				mult[p] mult[neutral] 16.11	Aggarwal 85B	angp, cs, p	K ⁺ X 57.81	Schnetzer 89	angp, cs, p angp
fragb X 76	Golovin 88	cs		Nit Li X 16.11	Aggarwal 85B	angp, cs, p	n X 18.81 – 29.04	Madey 85	angp, p
¹⁹Ft In				mult[He] mult[charged] X 16.11	Aggarwal 85B	angp, cs, p	2charged (charged) (neutrals) 19.09 – 29.28	Bastid 89	angp, mult, p
fragb X 76	Golovin 88	cs							

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_m in GeV. See the legend on page 153.

Ne U		²² Ne nucleus		²² Ne nucleus	
charged X 19.09		Schurman 87	angp. p		
Ne nucleus				mult[grey] (neutrals) Andreeva 86 mult Krasnov 86 mult	
charged X 19.09 – 29.28		Bastid 89	angp. p	mult[shower] (neutrals) 90.2 Andreeva 89 mult. p Krasnov 86 mult	
mult[charged] (neutrals) 19.09 – 29.28		Bastid 89	mult	2charged X 90.2 Krasnov 87 cor	
π^+ X 79.82		Dubinina 88	angp. p	$e^- e^+$ X 54 Elnadi 88 mass	
π^- X 57.81 79.82		Schurman 87 Dubinina 88	angp. p angp. p	π^\pm mult[htrack] X 99 Vokal 88 angp. mult. p, pt	
K^+ X 57.81		Schnetzler 89	angp. cs, p	p mult[htrack] X 99 Vokal 88 angp. mult. p, pt	
		Schurman 87 Stock 87	angp. p angp	He mult[htrack] X 90.2 Andreeva 88B angp. cor. mult. pt	
p X 19.09 – 57.81		Schurman 87 Stock 87	angp. p angp	mult[He] mult[htrack] X 90.2 Andreeva 88B mult	
		Antonchik 90B	angp. mult. p	π^\pm fragb X 99 Vokal 88 angp. mult. p, pt	
deuteron X 19.09 – 29.28		Schurman 87	angp. p	p fragb X 99 Vokal 88 angp. mult. p, pt	
$^3\text{H X}$ 19.09 – 29.28		Schurman 87	angp. p	black frag X 4.1 Elnaghy 87 mult	
π^\pm mult[htrack] X 79.82		Dubinina 88	angp. p	black fragt X 90.2 Krasnov 87 cor	
$0\pi^\pm$ mult[htrack] X 79.82		Dubinina 88	angp. p	black grey X 90.2 – 99 Antonchik 87 angp. mult. p, pt	
p π^+ X 29.28		Lhote 89	mass	black jet X 90.2 Lepekhin 89 mult	
p π^- X 19.09 – 64.09		Stock 87	mult	black shower X 90.2 Krasnov 87 cor	
2charged (charged) (neutrals) 19.09 – 29.28		Bastid 89	angp. mult. p	fragb jet X 90.2 Lepekhin 89 mult	
mult[p] mult[π^+] mult[π^-] X 90.05		Okonov 88	cor. mult	fragt jet X 90.2 Lepekhin 89 mult	
²²Ne p				grey frag X 4.1 Elnaghy 87 mult	
fragb X 88.55		Bogdanov 88	cs, mult	grey fragt X 90.2 Krasnov 87 cor	
²²Ne ¹²C				grey jet X 90.2 Lepekhin 89 mult	
mult[charged] (neutrals) 90.2		Elnaghy 87B	mult	grey shower X 90.2 Krasnov 87 cor	
²²Ne nucleus				mult[black] mult[fragb] X 90.2 Babaev 90 ang	
mult[charged] X 90.2		Bannik 87	angp. mult. p	mult[black] mult[grey] X 90.2 Babaev 90 ang	
hypernucleus X 90.2		Andreeva 86B	-	mult[black] mult[shower] X 90.2 Babaev 90 ang	
mult[charged] (neutrals) 90.2		Elnaghy 87B	mult	mult[grey] mult[fragb] X 90.2 Babaev 90 ang	
π^\pm X 99		Vokal 88 Leskin 86	p p	mult[shower] mult[fragb] X 90.2 Babaev 90 ang	
π^+ X 90.2		Shabratova 86	angp. p	mult[shower] mult[fragb] X 90.2 Babaev 90 ang	
π^- X 90.2		Shabratova 86	angp. p	shower frag X 4.1 Elnaghy 87 mult	
meson⁰ X 99		Elnadi 88	-	shower fragt X 90.2 Krasnov 87 cor	
p X 90.2		Andreeva 88B Shabratova 86	angp. angp. p	shower jet X 90.2 Lepekhin 89 mult	
		Vokal 88 Leskin 86	p p	2black X 90.2 Krasnov 86 ang	
deuteron X 99		Vokal 88	p		
				³H X 99 Vokal 88 p	
				⁴He X 39.63 – 64.21 Abdurazakova 88 pt	
				He X 90.2 Andreeva 88B angp	
				anomalon X 90.2 Alekseeva 88 angp. cs 90.81 Bayman 87	
				black X 90.2 Andreeva 89 mult. p Lepekhin 89 mult Andreeva 88 angp. mult. pt Andreeva 86 angp. mult Vokalova 85 angp. mult. p	
				frag X 4.1 Elnaghy 87 mult 90.2 Andreeva 86B p Vokalova 85 angp. mult. p	
				fragb X 90.2 Lepekhin 89 mult Andreeva 88 angp. pt	
				fragt X 90.2 Lepekhin 89 mult	
				grey X 90.2 Andreeva 89 mult. p Lepekhin 89 mult Andreeva 88 angp. mult. pt Andreeva 86 angp. mult Vokalova 85 angp. mult. p Antonchik 87 angp. mult. p, pt Vokal 88 p	
				mult[black] X 90.2 Babaev 90 ang Bannik 87 angp. mult. p	
				mult[fragb] X 90.2 Andreeva 88C col. cor Bannik 87 angp. mult. p	
				mult[fragt] X 90.2 Bannik 87 angp. mult. p	
				mult[grey] X 90.2 Babaev 90 ang Bannik 87 angp. mult. p	
				mult[shower] X 90.2 Babaev 90 ang Lepekhin 89 ang. angp. col Bannik 87 angp. mult. p	
				shower X 90.2 Andreeva 89 mult. p Lepekhin 89 mult Andreeva 88 angp. mult. pt Krasnov 86 angp Vokalova 85 angp. mult. p 99 Vokal 88 p	
				mult[black] (neutrals) 90.2 Andreeva 89 mult. p Andreeva 88 mult Elnaghy 87B mult Andreeva 86 mult Krasnov 86 mult	
				mult[grey] (neutrals) 90.2 Andreeva 89 mult. p Andreeva 88 mult Elnaghy 87B mult	

^{22}Ne nucleus \rightarrow 2frag XSi Si \rightarrow K^+ X

Ne nucleus			Mg C			^{26}Si Au		
frag X			mult[charged ⁻] X			fragb X		
4.1	Elnaghy 87	mult	102	Grigalashvil 88	a-dep. mult	431.3	Tannenbaum 89	p
2fragb X						mult[neutral] X		
39.63 - 64.21	Abdurazakova 88	ang. cor				406	Tannenbaum 89	et. p
2frag (frags)			Mg Pb			fragb mult[neutral] X		
90.2	Andreeva 88	cs	mult[htrack] X			431.3	Tannenbaum 89	p
	Elnaghy 87B	cs	108	Krasnov 88	mult	^{26}Si ^{197}Au		
	Andreeva 86	cs	π^{\pm} mult[htrack] X			π^+ X		
black mult[black] fragt X			108	Krasnov 88	mult	408	Abbott 90	p. pt
90.2	Krasnov 87	cor	htrack mult[htrack] X			π^- X		
black mult[black] shower X			108	Krasnov 88	angp. mult	408	Abbott 90	p. pt
90.2	Krasnov 87	cor	mult[htrack] black X			K^+ X		
black shower fragt X			108	Krasnov 88	mult	408	Abbott 90	p. pt
90.2	Krasnov 87	cor	mult[htrack] fragb X			K^- X		
grey shower fragt X			108	Krasnov 88	mult	408	Abbott 90	p. pt
90.2	Krasnov 87	cor	mult[htrack] shower X			p X		
mult[black] grey fragt X			108	Krasnov 88	mult. p	408	Abbott 90	p. pt
90.2	Krasnov 87	cor	htrack mult[htrack] shower X			^{26}Si Pb		
mult[black] grey shower X			108	Krasnov 88	ang. angp. cor	mult[hadron] X		
90.2	Krasnov 87	cor	Mg nucleus			280	Tannenbaum 89	et. p
mult[black] shower fragt X			mult[charged] X			^{26}Si nucleus		
90.2	Krasnov 87	cor	108	Ghosh 89	cor. mult. p	hypernucleus X		
mult[black] 2grey X			π^+ X			114.8	Ameeva 87	cs
90.2	Krasnov 87	cor	79.82	Dubinina 88	angp. p	black X		
mult[black] 2shower X			π^- X			4.5	Ameeva 89	angp. mult
90.2	Krasnov 87	cor	79.82	Dubinina 88	angp. p	126	Krasnov 88B	cs, mult. p
2black fragt X			π^{\pm} mult[htrack] X			fragb X		
90.2	Krasnov 87	cor	79.82	Dubinina 88	angp. p	114.8	Ameeva 87	cs
2black mult[black] X			$0\pi^{\pm}$ mult[htrack] X			126	Krasnov 88B	cs
90.2	Krasnov 87	cor	79.82	Dubinina 88	angp. p	fragt X		
2grey fragt X			^{26}Si Al			126	Krasnov 88B	cs
90.2	Krasnov 87	cor	fragt X			grey X		
2shower fragt X			431.3	Tannenbaum 89	p	4.5	Ameeva 89	angp. mult
90.2	Krasnov 87	cor	mult[hadron] X			126	Krasnov 88B	cs, mult. p
mult[black] mult[grey] fragt fragb			280	Tannenbaum 89	et. p	hadron X		
99	Andreeva 85C	mult	mult[neutral] X			406	London 89	angp. et
^{24}Mg Mg			406	Tannenbaum 89	et. p	mult[black] X		
charged X			431.3	Tannenbaum 89	p	4.5	Ameeva 89	mult
108	Anikina 89	mult	fragb mult[neutral] X			mult[grey] X		
charged ⁻ X			431.3	Tannenbaum 89	p	4.5	Ameeva 89	mult
108	Anikina 89	mult	^{26}Si ^{26}Si			mult[shower] X		
mult[charged] X			π^- X			4.5	Ameeva 89	mult
108	Anikina 89	mult	67.41 - 77.83	Shor 89	angp	shower X		
mult[charged ⁻] X			80.78	Carroll 89	angp	4.5	Ameeva 89	mult. p
108	Anikina 89	mult	K^+ X			126	Krasnov 88B	cs, mult. p
π^- X			77.83	Shor 89	angp	mult[htrack] fragb X		
108	Anikina 89	mult	K^- X			4.5	Ameeva 89	ang. p
mult[π^-] X			67.41 - 77.83	Shor 89	angp	black mult[shower] X		
108	Anikina 89	mult	80.78	Barasch 85	angp	4.5	Ameeva 89	mult
mult[frag] mult[charged] X			\bar{p} X			grey mult[shower] X		
108	Anikina 89	mult	67.41 - 77.83	Shor 89	angp	4.5	Ameeva 89	mult
^{24}Mg nucleus			80.78	Carroll 89	angp	mult[black] fragb X		
anomalon X			exotic X			4.5	Ameeva 89	ang. p
108	Karev 88	cs	80.78	Abachi 85	angp	mult[shower] fragb X		
frag X			longlived X			4.5	Ameeva 89	ang. p
108	Karev 88		80.78	Abachi 85	angp	mult[shower] fragt X		
fragb X			q X			4.5	Ameeva 89	ang. p
108	Veres 85	cs	80.78	Abachi 85	angp	2frag (frags)		
mult[shower] X			^{26}Si Cu			126	Krasnov 88B	cs
108	Ghosh 89D	mult. p	mult[hadron] X			Si Al		
Mg C			280	Tannenbaum 89	et. p	neutral X		
inelastic			mult[neutral] X			406	Remsberg 88	p
102	Grigalashvil 88	cs	406	Tannenbaum 89	et. p	hadron λ		
charged ⁻ X			^{26}Si Ag			305	Braunmünzing 88	et. p
102	Grigalashvil 88	a-dep. mult.	mult[neutral] X			Si Si		
			406	Tannenbaum 89	et. p	K^+ X		
						80.83	Stock 87	angp

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

Si Si \rightarrow K⁻ X³²S Au \rightarrow frag neutral X

Si Si	³² S S	³² S Wt
K ⁻ X 80.83 Schurman 87 angp. p	charged ⁻ X (621.1) Odyniec 89 p. pt	charged ⁻ X (1494) Akesson 89E cs, et. pt Schukraft 88B et. p, pt
Si Cu	π^- X (621.1) Odyniec 89 pt Pugh 89 pt	mult[charged] (neutrals) (1494) Ritter 88 et. mult
hadron X 305 Braumunzng 88 et. p	K ⁰ X (621.1) Odyniec 89 pt	γ X (1494) Akesson 89D cs, et. pt Schukraft 88B pt
Si Au	K _S X (621.1) Pugh 89 pt	π^0 X (1494) Akesson 89D cs, et. pt
neutral X 406 Remsberg 88 p	p X (621.1) Odyniec 89 p. pt Pugh 89 pt	Λ X (1494) Abatzis 90 p. pt
π^+ X 431.4 Miake 88 angp. p	Λ X (621.1) Odyniec 89 pt Pugh 89 pt	$\bar{\Lambda}$ X (1494) Abatzis 90 p. pt
π^- X 431.4 Miake 88 angp. p	$\bar{\Lambda}$ X (621.1) Odyniec 89 pt	hadron X (1494) Akesson 88C a-dep. cor. et. p Schukraft 88B a-dep. et. p
K ⁺ X 431.4 Miake 88 angp. p	mult[hadron] X (621.1) Odyniec 89 cor. et. p	mult[neutral] X (1494) Tannenbaum 89 et. p
K ⁻ X 431.4 Miake 88 angp. p	³² S Fe	charged ⁻ mult[charged] X (1494) Abatzis 90 mult. p
Si Pb	inelastic (820.1) Andersen 89 a-dep. cs	p π^- X (1494) Abatzis 90 mass
hadron X 305 Braumunzng 88 et. p	fragb X (820.1) Andersen 89 a-dep. cs	\bar{p} π^+ X (1494) Abatzis 90 mass
mult[7] mult[frag] X (6578) Burnett 85D angp. mult. p, pt	shower X (820.1) Andersen 89 a-dep. cs	Λ mult[charged] X (1494) Abatzis 90 mult. p
Si nucleus	³² S Cu	$\bar{\Lambda}$ mult[charged] X (1494) Abatzis 90 mult. p
mult[7] mult[frag] X 112 · 10 ³ Burnett 85D angp. mult. p, pt	inelastic (875) Andersen 89 a-dep. cs	³² S Pt
³² S p	neutral X 464 Tannenbaum 88 p	charged ⁻ X (1540) Akesson 89E cs, et. pt
frag X (31.42 - 113.8) Brechtmann 88 cs	frag X (111.7 - 875) Brechtmann 88 cs	γ X (1540) Akesson 89D cs, et. pt
charged (charged) (neutrals) (31.42 - 113.8) Brechtmann 88 cs	fragb X (875) Andersen 89 a-dep. cs Price 88 cs	π^0 X (1540) Akesson 89D cs, et. pt
³² S C	mult[hadron] X (875) Odyniec 89 cor. et. p	hadron X (1540) Akesson 88C a-dep. cor. et. p Schukraft 88B a-dep. et. p
frag X (46.71 - 380.6) Brechtmann 88 cs	shower X (875) Andersen 89 a-dep. cs	mult[neutral] X (1540) Tannenbaum 89 et. p
charged (charged) (neutrals) (46.71 - 380.6) Brechtmann 88 cs	charged (charged) (neutrals) (111.7 - 875) Brechtmann 88 cs	$\mu^- \mu^+$ X (1540) London 89 mass Schukraft 88B mass, p. pt
³² S Al	³² S Ag	2 μ^- X + 2 μ^+ X (1540) Schukraft 88B mass, p
inelastic (569.8) Andersen 89 a-dep. cs	inelastic (1142) Andersen 89 a-dep. cs	³² S Au
neutral X 464 Tannenbaum 88 p	neutral X 464 Tannenbaum 88 p	charged X (1547) Otterlund 88B et
frag X (70.35 - 569.8) Brechtmann 88 cs	frag X (146.5 - 1142) Brechtmann 88 cs	neutral X 464 Tannenbaum 88 p
fragb X 464 Tannenbaum 88 p (569.8) Andersen 89 a-dep. cs Price 88 cs	fragb X (1142) Andersen 89 a-dep. cs	mult[charged] (neutrals) (1547) Ritter 88 et. mult
hadron X (569.8) Akesson 88C a-dep. cor. et. p Schukraft 88B a-dep. et. p	hadron X (1142) Akesson 88C a-dep. cor. et. p Schukraft 88B a-dep. et. p	fragb X 464 Tannenbaum 88 p
mult[neutral] X (569.8) Tannenbaum 89 et. p	mult[hadron] X (1142) Odyniec 89 cor. et. p	hadron X (1547) Heck 88 et
shower X (569.8) Andersen 89 a-dep. cs	mult[neutral] X (1142) Tannenbaum 89 et. p	mult[hadron] X (1547) Odyniec 89 cor. et. p
charged (charged) (neutrals) (70.35 - 569.8) Brechtmann 88 cs	shower X (1142) Andersen 89 a-dep. cs	shower X (1547) Adamovich 89 mult. p
fragb neutral X 464 Tannenbaum 88 cor. p	charged (charged) (neutrals) (146.5 - 1142) Brechtmann 88 cs	fragb neutral X 464 Tannenbaum 88 cor. p
³² S ³² S	³² S Wt	
Λ X (619.1) Panagiotou 89 p. pol. pt	charged X (1494) Akesson 90 cor. et. mult. p	

³²S Au →shower mult[shower] X

⁴⁰Ar nucleus →grey X

³²S Au			³²S nucleus			Ar nucleus		
shower mult[shower] X (1547)	Adamovich 89	mult, p	mult[shower] X 6430	Jain 90 Romano 89 Singh 88	mult et. mult	π^- X 57.41	Lhote 89	angp
³²S Hg						p X		
q X (1562)	Calloway 89	-		ang. cor. mult, p Stenlund 88		57.41	Lhote 89 Schurman 87	angp angp, p
³²S Pb			shower X 6430	Jain 90 Adamovich 89 Adamovich 89B Singh 88	mult, p mult, p mult mult, p	57.41 - 100.8	Stock 87	angp
inelastic (1588)	Andersen 89	a-dep, cs	nucleus mult[fragb] 6430	Romano 89	cs	He X 109	Jain 85	-
frag X (1588)	Brechtmann 88	cs	2charged ⁻ X 6430	Romano 89	angp, cor	p π^- X 37.47 - 125.4	Stock 87	mult
fragb X (1588)	Andersen 89 Price 88	a-dep, cs cs	nucleus ¹⁶ O X 6430	Baroni 90	cs, p	π^- mult[grey] X 45.35 - 98.68	Lhote 89	mult
hadron X (1588)	Akesson 88C Schukraft 88B	a-dep, cor, et, p a-dep, et, p	nucleus Ne X 6430	Baroni 90	cs, p	p 4charged-hadron X 57.41	Schurman 87	angp, p
mult[neutral] X (1588)	Tannenbaum 89	et, p	nucleus Na X 6430	Baroni 90	cs, p	⁴⁰Ar C		
shower X (1588)	Andersen 89	a-dep, cs	nucleus Mg X 6430	Baroni 90	cs, p	fragt X 8.1	Hufner 85	p
charged (charged) (neutrals) (1588)	Brechtmann 88	cs	charged (charged) (neutrals) 42.86 - 6430	Brechtmann 88	cs	⁴⁰Ar ⁴⁰Ar		
³²S U			He mult[htrack] X 6430	Singh 88B	cs	π^+ X 58.38	Schurman 87	angp, p
J/ ψ (15) X (1703)	Sonderegger 89	cs, et, pt	nucleus He X 6430	Baroni 90	cs, p	⁴⁰Ar Cu		
hadron X (1703)	Akesson 88C Schukraft 88B	a-dep, cor, et, p a-dep, et, p	mult[shower] 0fragb X 6430	Jain 90B Romano 89	cor, mult, p mult	²⁴Na X 102.7	Dersch 85	angp, cs
mult[neutral] X (1703)	Tannenbaum 89	et, p	shower 0fragb X 6430	Jain 90	mult, p	²⁸Mg X 102.7	Dersch 85	angp, cs
$\mu^- \mu^+$ X (1703)	Sonderegger 89	cs, et, et, mass, pt	shower mult[shower] X 6430	Adamovich 89	mult, p	anomalon X 63.08 - 102.7	Tolstov 87	p
$2\mu^- X + 2\mu^+ X$ (1703)	Sonderegger 89	et, mass	nucleus Ph p 6430	Baroni 90	cs, p	frag X 102.7	Dersch 85	angp, cs
³²S nucleus			nucleus Si He 6430	Baroni 90	cs, p	2frag (frags) 63.08 - 102.7	Tolstov 87	p
inelastic 6430	Baroni 90 Romano 89 Sengupta 89B Singh 88	cs cs cs cs	shower mult[shower] 0fragb X 6430	Singh 89	cor, mult, p	⁴⁰Ar ²⁰⁸Pb		
charged X 6430	Akesson 90	cor, et, mult, p	nucleus Si 2p 6430	Baroni 90	cs, p	mult[charged] X 102.7	Hallman 85	angp, mult
mult[charged] X 6430	Holynski 89 Sengupta 88	mult cor, mult, p	nucleus Al He p 6430	Baroni 90	cs, p	γ X 102.7	Hallman 85	angp, mult
mult[charged] (neutrals) 6430	Buschbeck 89	mult, p	nucleus Al 3p 6430	Baroni 90	cs, p	π^0 X 102.7	Hallman 85	angp, mult
He X 6430	Sengupta 89B Singh 88B	cs cs	S U			π^\pm X 102.7	Hallman 85	angp, mult
0fragb X 6430	Sengupta 89B	cs	ω mult[charged] (neutrals) + ρ^0 mult[charged] (neutrals) (1699)	Abreu 89	cs	mult[π^\pm] X 102.7	Hallman 85	angp, mult
mult[He] X 1950 - 6430 6430	Sengupta 89B Sengupta 89B	mult cs	ϕ mult[charged] (neutrals) (1699)	Abreu 89	cs	mult[π^0] X 102.7	Hallman 85	angp, mult
frag X 42.86 - 6430	Brechtmann 88	cs	$\mu^- \mu^+$ mult[charged] (neutrals) (1699)	Abreu 89	et, mass	mult[π^0] X 102.7	Hallman 85	angp, mult
fragb X 6430	Romano 89	angp, p	Ar Pb			⁴⁰Ar nucleus		
hadron X 6430	London 89	et, p	p X 57.41	Stock 87	angp	charged X 67.68 - 76.69	Antonchik 90	mult
			mult[γ] mult[frag] X (3885)	Burnett 85D	angp, mult, p, pt	π^+ X 58.38	Stock 87	angp
			Ar nucleus			π^- X 58.38 - 102.7	Stock 87	angp
			charged X 100.8	Stock 87	mult	p X 76.69	Antonchik 90B	angp, mult, p, pt
			π^- X 37.47 - 100.8	Stock 87	mult	He X 76.69	Antonchik 90B	angp, mult, p, pt
						anomalon X 102.7 102.7 - 111.2	Bhanja 85 Bayman 87	cs -
						black X 67.68 - 76.69	Antonchik 90	mult
						fragb X 67.68 - 76.69	Antonchik 90	angp, mult, pt
						grey X 67.68 - 76.69	Antonchik 90	mult

Entries in order of beam mass, then target mass, then multiplicity of final state. Inclusive reactions have an "X" as the last of the final state particles. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (See the Particle Vocabulary.) Beam momenta are P_{lab} in GeV/c, or in parentheses E_{cm} in GeV. See the legend on page 153.

^{40}Ar nucleus \rightarrow shower X ^{48}Sc Be \rightarrow fragt X

^{40}Ar nucleus			
shower X			
67.68 - 76.69	Antonchik 90	mult	
mult[htrack] charged X			
67.68 - 76.69	Antonchik 90	mult	
mult[htrack] black X			
67.68 - 76.69	Antonchik 90	mult	
mult[htrack] fragb X			
67.68 - 76.69	Antonchik 90	mult	
mult[htrack] grey X			
67.68 - 76.69	Antonchik 90	mult	
mult[htrack] shower X			
67.68 - 76.69	Antonchik 90	mult	
Ca Ca			
charged X			
22 - 70	Gustafsson 88	p, pt	
mult[p] X			
38.09 - 70	Gustafsson 88		
	Doss 86	col, mult, p	
		col, mult, p	
$e^- e^+$ X			
67.73	Naudet 88C	mass, pt	
	Roche 88	mass, pt	
67.73 - 111.2	Roche 89	cs, mass, pt	
109.1	Roche 87	cs, mass, pt	
111.2	Naudet 88C	mass	
	Roche 88	mass	
Ca Pb			
mult[γ] mult[frag] X			
(2786)	Burnett 85D		
		angp, mult, p, pt	
γ fragb 451charged (charged) X			
(5276)	Burnett 86	angp, p, pt	
γ fragb 670charged X			
(2786)	Burnett 86	angp, p, pt	
Ca nucleus			
charged X			
$12 \cdot 10^3$	Chernavskaya 87	p, pt	
p X			
$600 - 8 \cdot 10^3$	Gagarin 89	angp, p	
p mult[htrack] X			
$600 - 8 \cdot 10^3$	Gagarin 89	angp, p	
mult[γ] mult[frag] X			
$48 \cdot 10^3$	Burnett 85D		
		angp, mult, p, pt	
γ fragb 760charged X			
$4 \cdot 10^6$	Burnett 86	angp, p, pt	
Tl Pb			
267charged X			
1973	Burnett 87	angp, p	
p 267charged X			
1973	Burnett 87	mult	
γ fragb 415charged (charged) X			
(4264)	Burnett 86	angp, p, pt	
Tl nucleus			
265charged X			
1315	Burnett 87	angp, p	
p 265charged X			
1315	Burnett 87	mult	
^{48}Sc Be			
fragt X			

This index lists papers by particles produced and their decays, ordered alphabetically by particle, then decay. For a given decay, ID's are ordered by year (most recent to oldest), then author name. For the full reference, see the ID/Reference/Title Index.

When no decay mode is given, no mode was given in the original paper.

Illustrative Key

Particle: see the *Particle Vocabulary* for nomenclature.

Decay: decay mode of the particle.

$a_2(1320)^+$	Ahmad 84
	Baltrusaitis 86
	Bisello 88
	Kopke 89
	Thorndike 88
$\eta \pi^+$	Atkinson 85C
	Landsberg 86
$K^+ K_S$	Landsberg 86

Document ID: see *ID/Reference/Title Index* for the full reference.

$a_0(980)$

Cs(atom)

$a_0(980)$	Szklarz 89 Toki 88B	$a_1(1260)^-$	Miller 89 Riles 89 Stoker 89 Thorndike 88 Bebek 87B Albrecht 86E Ruckstuhl 86	$a_2(1320)^0$	Althoff 85D Albrecht 89K Barlow 87 Berger 87B Kolanski 87 Landsberg 86 Tsukerman 85	^{20}Al	$^{20}\text{Mg } e^+ \nu_e$ Hardy 89 Wichers 87
$K \bar{K}$		$2\pi^0 \pi^-$	Skwarnicki 87B	$2K_S$	Rath 89 Bolonkin 88	^{241}Am	$^4\text{He } e^- e^+ X$ Asamura 90
$a_0(980)^+$	Ouldsaada 88B Baltrusaitis 86 Aston 85	$\pi^+ 2\pi^-$	Zajmidoroga 85	$e^- e^+$	Vorobiev 88C	$^4\text{He neutral } X$ Asamura 90	
$\eta \pi^+$	Ando 86	$\rho^- \pi^0$	Albrecht 90E Ford 87	$\eta \pi^0$	Boutemeur 89 Dolinsky 89B Mallik 89B Aide 88E Augustin 88C Bienlein 88 Boutemeur 88 Gidal 88C Aulchenko 87C Antreasyan 86 Apel 85	annihil	Bruেকner 90 Bitter 89 Kuzichev 89 Batyunya 88B Kuzichev 88 Mutchler 88 Sedlak 88 Armstrong 87B Balestra 87 Batusov 87C Batyunya 87B Bogolyubsky 87E Druckner 87 Franklin 87 Armstrong 86C Batyunya 86B Fickinger 86B Sapozhnikov 86
$K^+ K_S$	Augustin 88C Toki 88B Armstrong 86E	$\rho^0 \pi^-$	Albrecht 90E Ammosov 88C Ford 87		Behrend 89G Feindt 89 Althoff 86	anomalon	Abdullin 89H Aleksueva 88 Karev 88 Bano 87 Bayman 87 Fuess 87 Tolstov 87 Bano 86 Clarke 86 Aguliarbenit 85F Avdechikov 85 Bhanja 85 Cheplakov 85 Drechsel 85 Ghosh 85 Veres 85 Ableev 84B
$a_0(980)^-$	Ouldsaada 88B Baltrusaitis 86 Aston 85	$a_1(1260)^0$	Chapin 85	$\rho^+ \pi^-$	Augustin 88B Blinov 87C		
$\eta \pi^-$	Ando 86	$\eta \pi^+ \pi^-$	Inagaki 89B	$\rho^- \pi^+$	Augustin 88B Blinov 87C		
$K_S K^-$	Augustin 88C Armstrong 86E	$\pi^+ \pi^0 \pi^-$	Takamatsu 89				
$a_0(980)^0$	Kopke 89 Druzhinin 85	$\rho^+ \pi^-$	Albrecht 90E	$a_3(2050)^-$	$f_0(1240) \pi^-$	Joyner 89	
2γ	Berger 87B	$a_2(1320)$	Berger 88 Bebek 87B	$a_3(1790)^-$		Cassata 88	
$2K_S$	Rath 89 Toki 88B	$\rho \pi$		Ag		Antipov 86C	
$e^- e^+$	Vorobiev 88C	$a_2(1320)^+$	Drell 89 Halling 89 Kopke 89 Bisello 88 Thorndike 88 Bebek 87B Baltrusaitis 86 Ahmad 84	$a_3(2050)^-$		Antipov 89C Efendiev 89 Zajmidoroga 85	
$\eta \pi^0$	Boutemeur 89 Dolinsky 89B Mallik 89B Augustin 88C Boutemeur 88 Boutemeur 88 Gidal 88C Aulchenko 87C Kolanski 87 Antreasyan 86	$\eta \pi^+$	Landsberg 86 Atkinson 85C	$a_3(1790)^-$		Kozma 90	
$\eta \pi$	Berger 87B	$K^+ K_S$	Sedlak 88 Landsberg 86	Ag*		Butsev 85	
$K^+ K^-$	Toki 87	$\pi^+ \gamma$	Landsberg 86	^{104}Ag		Butsev 85	
$a_1(1260)$	Bebek 87B	$\rho^0 \pi^+$	Armstrong 89C Armstrong 89E Augustin 88B Sedlak 88	$^{104}\text{Ag}^*$		Butsev 85	
$a_1(1260)^+$	Browder 89 Drell 89 Halling 89 Thorndike 88 Bebek 87B Skwarnicki 87B Albrecht 86E	$a_2(1320)^-$	Drell 89 Halling 89 Kopke 89 Bisello 88 Thorndike 88 Bebek 87B Baltrusaitis 86 Ahmad 84	^{105}Ag		Hufner 85	
$2\pi^+ \pi^-$	Adler 89D Adler 89E Dejorzh 89 Ruckstuhl 86	$\eta \pi^-$	Atkinson 85C	^{111}Ag		Hufner 85	
$\pi^+ \gamma$	Landsberg 86	$K_S K^-$	Sedlak 88	Al		Baroni 90 Efendiev 89 Avdechikov 87C Antipov 86 Antipov 86B Marx 86 Piragino 86B Ableev 85 Antipov 85 Antipov 85B Antipov 85C Zajmidoroga 85	
$\rho^+ \pi^0$	Albrecht 90E Ford 87 Landsberg 86	$\rho^0 \pi^-$	Armstrong 89C Armstrong 89E Augustin 88B Sedlak 88 Bridges 86D	$^{104}\text{Ag}^*$		Butsev 85	
$\rho^0 \pi^+$	Albrecht 90E Ford 87	$a_2(1320)^0$	Kopke 89 Adiels 88 Sedlak 88 Bolonkin 87	$^{105}\text{Ag}^*$		Butsev 85	
$a_1(1260)^-$	Drell 89 Halling 89 Kreineck 89			$^{111}\text{Ag}^*$		Hufner 85	
				Al*		Apokin 86D	
							Cs(atom) Gilbert 86B Gilbert 85

196Au

B⁺

196Au	B	B(unspec)	B(unspec)
Bartke 89 Hill 88	\bar{D}^0 X	$D^0 e^-$ X	$K_S J/\psi(1S) 2\pi$
axiguon	$e^+ \nu_e$ X	$D^0 \mu^+$ X	Albrecht 87G
2jet	Danilov 88	Thorndike 88	$K_S J/\psi(1S) \pi$
Spिकास 88	Albrecht 90D	Thorndike 88	Albrecht 87G
axion	Danilov 89	Thorndike 88	$K_S \mu^-$ X
Atoyán 90	Danilov 88	Thorndike 88	Thorndike 88
Gninenko 89	higgs X	Harder 89	$\Lambda \bar{\Lambda}$ X
Orto 89	Alan 89	Thorndike 88	Alam 87B
Balke 88	Halling 89	Bartoletto 87	Λ X
Albrecht 86C	Snyder 89	Schindler 87	Albrecht 89E
Badier 86	$J/\psi(1S) X$	Thorndike 88	Thorndike 88
Ananiev 83	$K^*(892) \gamma$	$e^\pm \nu_e$ charmed-meson	Alam 87B
	Sugahara 88B	Wachs 89	Schindler 87
	kaon π	e [±] X	Λ_c^+ X
	Sugahara 88B	Wachs 89	Albrecht 88G
	Λ X	Tao 88	Alam 87B
	Danilov 88	Schindler 87	$\bar{\Lambda}$ X
	Λ_c^+ X	$e^- e^+$ X	Thorndike 88
	Miller 89	Bean 87	ℓ hadron (hadrons)
	$\bar{\Lambda}_c^-$ X	e ⁻ X	Elsen 90
	Danilov 88	$J/\psi(1S) \pi^+$	ℓ X
	$\bar{\Lambda}$ X	π^- X	Wu 87
	Danilov 88	Albrecht 87G	$\mu^- \mu^+$ X
	$\ell \nu$ X	$J/\psi(1S) X$	Bean 87
	Schubert 89	Maschmann 69	Haas 85
	$\ell^+ \nu$ X	Thorndike 88	μ^- X
	Artuso 89	Albrecht 87G	Thorndike 88
	$\mu^+ \nu_\mu$ X	Albrecht 87C	$p K^- \pi^+$ X
	Albrecht 90D	Schindler 87	Albrecht 88G
	Danilov 89	Alam 86	$p \bar{p}$ X
	Danilov 88	Albrecht 85K	Alam 87B
	μ^\pm X	Haas 85	p X
	Bartel 86	$K^*(unspec) higgs$	Albrecht 89E
	Alam 89	Wu 87	Thorndike 88
	$\mu^- \mu^+$ X	$K^+ e^-$ X	Alam 87B
	Alam 89	Thorndike 88	Schindler 87
	μ^- X	$K^+ J/\psi(1S) 2\pi$	\bar{p} X
	Band 89	Albrecht 87G	Thorndike 88
	Danilov 88	Albrecht 85K	ϕ X
	\bar{p} X	$K^+ J/\psi(1S) 3\pi$	Bartoletto 86
	Danilov 88	Albrecht 85K	$\pi^+ \pi^- e^- e^+$ X
	$\psi(2S) X + \chi_c(unspec) X +$	$K^+ J/\psi(1S) \pi$	Albrecht 87G
	$J/\psi(1S) X$	Albrecht 87G	$\pi^+ \pi^- \mu^- \mu^+$ X
	Danilov 88	Albrecht 85K	Albrecht 87G
	$\psi(2S) X$	$K^+ \ell^-$ X	$\psi(2S) X$
	Miller 89	Alam 87	Albrecht 87G
	B(unspec)	$K^+ \mu^-$ X	Schindler 87
	Han 85	$K^+ X$	Albrecht 89E
	2hadron (hadrons)	$K^+ X$	
	Wu 87	$K^- e^-$ X	B⁺
	charmed-meson X	Thorndike 88	Schindler 87
	Schindler 87	$K^- J/\psi(1S) 2\pi$	B⁺ (unspec)
	$D^*(2010)^+ X$	$K^- J/\psi(1S) 3\pi$	B(unspec) γ
	Harder 89	Albrecht 85K	Han 85
	Thorndike 88	$K^- J/\psi(1S) \pi$	B⁺
	Bartoletto 87	Albrecht 85K	Schindler 87
	Csorna 85	$K^- \ell^-$ X	B⁺
	$D^*(2010)^- X$	Alam 87	Schindler 87
	Thorndike 88	$K^- \mu^-$ X	B⁺
	Csorna 85	Thorndike 88	Schindler 87
	$D^*(2010)^0 X$	$K^- X$	B⁺
	Thorndike 88	Thorndike 88	Schindler 87
	$\bar{D}^*(2010)^0 X$	Alam 87	B⁺
	Thorndike 88	$K^0 J/\psi(1S) 2\pi$	Schindler 87
	$D^+ X$	Albrecht 85K	B⁺
	Harder 89	$K^0 J/\psi(1S) 3\pi$	Schindler 87
	Thorndike 88	Albrecht 85K	Albrecht 90D
	Bartoletto 87	$K^0 J/\psi(1S) \pi$	Bartoletto 87
	Schindler 87	Albrecht 85K	Artuso 89
	$D^- X$	$K^0 \bar{K}^0 \ell^-$ X	Bartoletto 89B
	Thorndike 88	Alam 87	Bartoletto 89B
	$D_S^- X$	$\bar{K}^0 J/\psi(1S) 2\pi$	Kreinick 89
	Albrecht 87D	Albrecht 85K	Miller 89
	$D_S^\pm X$	$\bar{K}^0 J/\psi(1S) 3\pi$	Albrecht 87P
	Schindler 87	Albrecht 85K	Bean 87B
	$D_S^- X$	$\bar{K}^0 J/\psi(1S) \pi$	Bebek 87B
	Albrecht 87D	Albrecht 85K	Schindler 87
	Haas 86	$K_S e^-$ X	Alam 89
	$D^0 e^+ X$	Thorndike 88	Albrecht 89U
	Thorndike 88		
	B		
Behrends 87			
Cassel 85			
Mestayer 85			
baryon X			
Danilov 88			
baryon X			
Danilov 88			
charged (charged)			
(neutrals)			
Braunschweig 89L			
$D \mu^-$ X			
Bordalo 88			
$D^*(2010)^+ X$			
Miller 89			
D^+ X			
Miller 89			
D^- X			
Danilov 88			
D_S^+ X			
Miller 89			
D_S^- X			
Danilov 88			
D^0 X			
Miller 89			

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

B^+	B^+	B^+	B^+
$2\pi^+ \pi^-$ Albrecht 90E Halling 89 Schubert 89	$K^*(892)^+ \gamma$ Albrecht 89L Avery 89B Danilov 89 Halling 89 Thorndike 88 Avery 87	$K^+ \pi^+ \pi^-$ Alam 89 Albrecht 89U Avery 89B	$\bar{p} \Delta(1232 P_{33})^{++}$ Halling 89
$2\pi^+ \pi^0 \pi^-$ Albrecht 90E	$K^*(892)^+ \text{higgs}$ Alam 89	$K^+ \psi(2S)$ Halling 89 Schubert 89 Albrecht 87G	$\pi^+ 2\pi^0$ Albrecht 90E
$3\pi^+ 2\pi^-$ Albrecht 90E	$K^*(892)^+ J/\psi(1S)$ Schubert 89 Thorndike 88	$K^+ \rho^0$ Albrecht 89S Avery 89B Danilov 89 Halling 89 Thorndike 88 Avery 87	$\pi^+ e^- e^+$ Weir 89
$3\pi^+ \pi^0 2\pi^-$ Albrecht 90E	$K^*(892)^+ K^+ K^-$ Alam 89 Albrecht 89U	$K^- 2e^+$ Weir 89	$\pi^+ \mu^+ e^-$ Weir 89
$a_1(1260)^+ a_1(1260)^0$ Albrecht 90E	$K^*(892)^+ \mu^- \mu^+$ Alam 89 Albrecht 89U Avery 89B	$K^- 2\mu^+$ Weir 89	$\pi^+ \mu^- e^+$ Weir 89
$a_1(1260)^+ \pi^0$ Albrecht 90E	$K^*(892)^+ \phi$ Albrecht 89S Danilov 89	$K^- e^- X$ Gray 87	$\pi^+ \mu^- \mu^+$ Weir 89
$a_1(1260)^+ \rho^0$ Albrecht 90E	$K^*(892)^+ \pi^+ \pi^-$ Alam 89 Albrecht 89U	$K^- \mu^+ e^+$ Weir 89	$\pi^+ \pi^0$ Albrecht 90E
$a_1(1260)^0 \pi^+$ Albrecht 90E	$K^*(892)^+ \rho^0$ Albrecht 89S Danilov 89	$K^- \mu^- X$ Gray 87	$\pi^- 2e^+$ Weir 89
$a_2(1320)^+ \rho^0$ Halling 89 Thorndike 88	$K^*(892)^0 \bar{K}^*(892)^0 K^+$ Alam 89	$K^0 \pi^+$ Avery 89B Halling 89 Avery 87	$\pi^- 2\mu^+$ Weir 89
$D^*(2010)^- 2\pi^+ \pi^0$ Halling 89 Schubert 89 Thorndike 88 Albrecht 87B Gittelman 87	$K^*(892)^0 K^+ \bar{K}^0$ Alam 89	$K_1(1270)^+ \gamma$ Albrecht 89L	$\pi^- \mu^+ e^+$ Weir 89
$D^*(2010)^- 2\pi^+$ Halling 89 Schubert 89 Thorndike 88 Albrecht 87B Gittelman 87 Cassel 85	$K^*(892)^0 \pi^+$ Halling 89	$K_1(1400)^+ \gamma$ Albrecht 89L Albrecht 88E	$\rho^+ \pi^0$ Albrecht 90E
$\bar{D}^*(2010)^0 \ell^+ \bar{\nu}$ Schubert 89	$K^+ e^- e^+$ Albrecht 89U Halling 89 Weir 89 Thorndike 88 Avery 87	$K_1(1400)^+ \phi$ Albrecht 89S	$\rho^+ \rho^0$ Albrecht 90E
$D^- 2\pi^+$ Halling 89 Schubert 89 Gittelman 87	$K^+ e^- X$ Gray 87	$K_1(1400)^+ \rho^0$ Albrecht 89S	$\rho^0 e^+ \nu_e$ Danilov 89
$D_S^+ \bar{D}^0$ Schubert 89	$K^+ f_0(1400)$ Halling 89	$K_1(1400)^+ \pi^+$ Albrecht 89S	$\rho^0 \ell^+ \bar{\nu}$ Schubert 89
$D^0 \pi^+$ Gittelman 87 Cassel 85	$K^+ f_2(1270)$ Avery 89B	$K_2^*(1430)^+ \gamma$ Albrecht 89L Albrecht 88E	$\rho^0 \mu^+ \nu_\mu$ Danilov 89
$\bar{D}^0 \ell^+ \nu$ Albrecht 89Q	$K^+ \text{higgs}$ Alam 89	$K_2^*(1430)^+ \phi$ Albrecht 89S	$\rho^0 \pi^+$ Albrecht 90E Halling 89 Schubert 89
$\bar{D}^0 \ell^+ \bar{\nu}$ Schubert 89	$K^+ J/\psi(1S) \pi^+ \pi^-$ Halling 89 Schubert 89 Albrecht 87G	$K_2^*(1430)^+ \rho^0$ Albrecht 89S	
$\bar{D}^0 \pi^+ \pi^0$ Schubert 89 Albrecht 88M Danilov 88 Thorndike 88	$K^+ J/\psi(1S)$ Halling 89 Schubert 89 Thorndike 88 Albrecht 87G Alam 86	$K_2^*(1430)^0 \pi^+$ Albrecht 89S	
$\bar{D}^0 \pi^+$ Halling 89 Schubert 89 Albrecht 88M Danilov 88 Thorndike 88	$K^+ \mu^+ e^-$ Weir 89	$K_3^*(1780)^+ \gamma$ Albrecht 89L Albrecht 88E	
$\bar{D}^0 \rho^+$ Halling 89 Albrecht 88M Danilov 88	$K^+ \mu^- e^+$ Weir 89	$K_3^*(2045)^+ \gamma$ Albrecht 89L	
$e^+ X$ Weir 90	$K^+ \mu^- \mu^+$ Weir 89	$K_5 \pi^+$ Albrecht 89S Danilov 89 Thorndike 88	
$e^\pm X$ Gray 87	$K^+ \mu^+ \mu^+$ Alam 89 Albrecht 89U Halling 89 Weir 89 Thorndike 88 Avery 87	$\mu^+ X$ Weir 90	
$\eta \pi^+$ Albrecht 90E	$K^+ \phi$ Albrecht 89S	$\mu^\pm X$ Gray 87	
$f_0(1400) \pi^+$ Halling 89		$\text{nonres} < K^+ \pi^+ \pi^- >$ Halling 89	
$f_2(1270) \pi^+$ Halling 89		$\omega \pi^+$ Albrecht 90E	
$K^*(1680)^+ \gamma$ Albrecht 89L		$p \bar{\Delta}(1232 P_{33})^0$ Halling 89	
$K^*(892)^+ e^- e^+$ Albrecht 89U Avery 89B		$p \bar{\Lambda}$ Avery 89B Halling 89	
		$p \bar{p} \pi^+$ Bebek 89 Schubert 89	
			B^-
			Albrecht 90D Albrecht 90E Albrecht 89Q Albrecht 89U Artuso 89 Bortoletto 89B Albrecht 87P Bean 87B Danilov 89 Drell 89 Halling 89 Thorndike 88 Bebek 87B
			$2\pi^+ 3\pi^-$ Danilov 89
			$a_1(1260)^- \rho^0$ Drell 89 Halling 89 Thorndike 88 Bebek 87B
			$a_2(1320)^- \rho^0$ Drell 89 Halling 89 Thorndike 88 Bebek 87B
			$D^*(2010)^+ 2\pi^-$ Halling 89 Kreinnick 89 Miller 89 Thorndike 88 Albrecht 87B Bebek 87B Gittelman 87 Cassel 85
			$D^*(2010)^+ \pi^0 2\pi^-$ Halling 89 Thorndike 88 Albrecht 87B Gittelman 87 Cassel 85
			$D^*(2010)^+ e^- \bar{\nu}_e$ Miller 89
			$D^*(2010)^0 \mu^- \bar{\nu}_\mu$ Miller 89
			$D^*(2010)^0 \pi^-$ Bebek 87B
			$D^*(2010)^0 \rho^-$ Schindler 87
			$D^+ 2\pi^-$ Halling 89 Bebek 87B

B^-

B^0

<p>B^-</p> <p>Gittelman 87 Schindler 87</p> <p>$D_s^- D^*(2010)^0$ Bortoletto 90</p> <p>$D_s^- D^0$ Bortoletto 90 Kreinick 89 Miller 89</p> <p>$D_s^- X$ Bortoletto 90</p> <p>$D^0 e^- \bar{\nu}_e$ Miller 89</p> <p>$D^0 K^+ K^-$ Bortoletto 90</p> <p>$D^0 K_S K^-$ Bortoletto 90</p> <p>$D^0 \mu^- \bar{\nu}_\mu$ Miller 89</p> <p>$D^0 \mu^-$ Albanese 85</p> <p>$D^0 \pi^-$ Halling 89 Kreinick 89 Miller 89 Albrecht 88M Danilov 88 Thorndike 88 Bebek 87B Gittelman 87 Schindler 87 Cassel 85</p> <p>$D^0 \pi^0 \pi^-$ Albrecht 88M Danilov 88 Thorndike 88</p> <p>$D^0 \rho^-$ Halling 89 Albrecht 88M Danilov 88</p> <p>$e^\pm X$ Gray 87</p> <p>$e^- X$ Weir 90</p> <p>$f_0(1400) \pi^-$ Halling 89</p> <p>$f_0(975) \pi^-$ Drell 89</p> <p>$f_2(1270) \pi^-$ Bortoletto 89 Drell 89 Halling 89</p> <p>$K^*(1680) \gamma$ Albrecht 89L</p> <p>$K^*(892) e^- e^+$ Avery 89B</p> <p>$K^*(892) \gamma$ Albrecht 89L Avery 89B Halling 89 Albrecht 88E Thorndike 88 Avery 87</p> <p>$K^*(892) \text{higgs}$ Alam 89</p> <p>$K^*(892) J/\psi(1S)$ Kreinick 89 Miller 89 Thorndike 88</p> <p>$K^*(892) K^+ K^-$ Alam 89</p> <p>$K^*(892) \mu^- \mu^+$ Alam 89 Avery 89B</p> <p>$K^*(892) \phi$ Albrecht 89S</p> <p>$K^*(892) \pi^+ \pi^-$ Alam 89</p> <p>$K^*(892) \psi(2S)$ Kreinick 89 Miller 89</p>	<p>B^-</p> <p>$K^*(892)^- \rho^0$ Albrecht 89S</p> <p>$K^*(892)^0 K^-(892)^0 K^-$ Alam 89</p> <p>$K^*(892)^0 \pi^-$ Halling 89</p> <p>$\bar{K}^*(892)^0 K^0 K^-$ Alam 89</p> <p>$\bar{K}^*(892)^0 \pi^-$ Albrecht 89S Avery 89B Thorndike 88 Avery 87</p> <p>$K^+ 2e^-$ Weir 89</p> <p>$K^+ 2K^-$ Alam 89</p> <p>$K^+ 2\mu^-$ Weir 89</p> <p>$K^+ \mu^- e^-$ Weir 89</p> <p>$K^- e^- e^+$ Halling 89 Weir 89 Thorndike 88 Avery 87</p> <p>$K^- f_0(1400)$ Halling 89</p> <p>$K^- f_2(1270)$ Avery 89B</p> <p>$K^- \text{higgs}$ Alam 89</p> <p>$K^- J/\psi(1S) \pi^+ \pi^-$ Halling 89 Kreinick 89 Miller 89 Albrecht 87G</p> <p>$K^- J/\psi(1S)$ Halling 89 Kreinick 89 Miller 89 Thorndike 88 Albrecht 87G Bebek 87B Alam 86</p> <p>$K^- \mu^+ e^-$ Weir 89</p> <p>$K^- \mu^- e^+$ Weir 89</p> <p>$K^- \mu^- \mu^+$ Alam 89 Halling 89 Weir 89 Thorndike 88 Avery 87</p> <p>$K^- \phi$ Albrecht 89S Avery 89B Halling 89 Thorndike 88 Avery 87 Gittelman 87</p> <p>$K^- \pi^+ \pi^-$ Alam 89 Avery 89B</p> <p>$K^- \psi(2S)$ Halling 89 Kreinick 89 Miller 89 Albrecht 87G</p> <p>$K^- \rho^0$ Albrecht 89S Avery 89B Halling 89 Thorndike 88 Avery 87</p> <p>$K_1(1270) \gamma$ Albrecht 89L</p> <p>$K_1(1400) \gamma$ Albrecht 89L Albrecht 88E</p>	<p>B^-</p> <p>$K_1(1400)^- \phi$ Albrecht 89S</p> <p>$K_1(1400)^- \rho^0$ Albrecht 89S</p> <p>$\bar{K}_1(1400)^0 \pi^-$ Albrecht 39S</p> <p>$K_2^*(1430) \gamma$ Albrecht 89L Albrecht 88E</p> <p>$K_2^*(1430) \phi$ Albrecht 89S</p> <p>$K_2^*(1430) \rho^0$ Albrecht 89S</p> <p>$\bar{K}_2^*(1430)^0 \pi^-$ Albrecht 89S</p> <p>$K_2^*(1780) \gamma$ Albrecht 89L Albrecht 88E</p> <p>$K_2^*(2045) \gamma$ Albrecht 89L</p> <p>$\bar{K}^0 \pi^-$ Avery 89B Halling 87 Avery 87</p> <p>$K_S \pi^-$ Albrecht 80 Thorndike 88</p> <p>$\Lambda e^+ X$ Schubert 89</p> <p>$\Lambda \mu^+ X$ Schubert 89</p> <p>ΛX Schubert 89</p> <p>$\Lambda_2^+ X$ Schubert 89</p> <p>$\bar{\Lambda} e^+ X$ Schubert 89</p> <p>$\bar{\Lambda} \mu^+ X$ Schubert 89</p> <p>$\bar{\Lambda} X$ Schubert 89</p> <p>$\mu^\pm X$ Gray 87</p> <p>$\mu^- X$ Weir 90</p> <p>$\text{nonres} < K^- \pi^+ \pi^- >$ Halling 89</p> <p>$p \bar{\Delta}(1232 F_{33})^{--}$ Drell 89 Halling 89</p> <p>$p e^+ X$ Schubert 89</p> <p>$p \bar{\Lambda} X$ Schubert 89</p> <p>$p \mu^+ X$ Schubert 89</p> <p>$p \bar{p} e^+ X$ Schubert 89</p> <p>$p \bar{p} \mu^+ X$ Schubert 89</p> <p>$p \bar{p} \pi^-$ Bebek 89 Danilov 89 Drell 89 Albrecht 88T Sugahara 88B</p> <p>$p \bar{p} X$ Schubert 89</p> <p>$p X$ Schubert 89</p> <p>$\bar{p} \Delta(1232 F_{33})^0$ Drell 89 Halling 89</p> <p>$\bar{p} e^+ X$ Schubert 89</p> <p>$\bar{p} \Lambda X$ Schubert 89</p> <p>$\bar{p} \Lambda$ Avery 89B Halling 89</p>	<p>B^-</p> <p>$\bar{p} \mu^+ X$ Schubert 89</p> <p>$\bar{p} X$ Schubert 89</p> <p>$\pi^+ 2e^-$ Weir 89</p> <p>$\pi^+ 2\mu^-$ Weir 89</p> <p>$\pi^+ 2\pi^-$ Bortoletto 89 Danilov 89 Drell 89 Halling 89</p> <p>$\pi^+ \mu^- e^-$ Weir 89</p> <p>$\pi^+ \pi^0 2\pi^-$ Danilov 89</p> <p>$\pi^- e^- e^+$ Weir 89</p> <p>$\pi^- \mu^+ e^-$ Weir 89</p> <p>$\pi^- \mu^- e^+$ Weir 89</p> <p>$\pi^- \mu^- \mu^+$ Weir 89</p> <p>$\pi^0 \pi^-$ Danilov 89 Bebek 87B</p> <p>$\rho \pi^-$ Bortoletto 89</p> <p>$\rho^0 \ell^- \bar{\nu}$ Albrecht 89T</p> <p>$\rho^0 \pi^-$ Danilov 89 Drell 89 Halling 89 Bebek 87B Cassel 85</p>
B_S			
<p>B_S</p> <p>Schindler 87</p> <p>Eggert 89 Franzini 89 Itep 89 Porter 89 Sugahara 88B Albajar 87C Summers 87 Schaad 85</p> <p>$e^- X$ Porter 89</p> <p>$\mu^+ X$ Summers 87</p> <p>$\mu^- \mu^+$ Albajar 88C</p> <p>$\mu^- X$ Porter 89 Albajar 87C Summers 87</p>			
B_S			
<p>B_S</p> <p>Franzini 89 Itep 89 Sugahara 88B Schindler 87</p> <p>Eggert 89 Porter 89 Schaad 85</p> <p>$e^+ X$ Porter 89</p> <p>$\mu^+ X$ Porter 89 Albajar 87C Summers 87</p> <p>$\mu^- \mu^+$ Albajar 88C</p> <p>$\mu^- X$ Summers 87</p>			
B^0			
<p>Albrecht 90D</p>			

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

B ⁰	B ⁰	B ⁰	B ⁰
Bortoletto 90 Bortoletto 89 Kreinick 89 Miller 89 Bebek 87B Schindler 87	D ⁺ (2010) ⁻ ℓ ⁺ ν Albrecht 89Q	η π ⁰ Albrecht 90E	Danilov 89 Gilman 89 Hallings 89 Avery 87
2π ⁺ 2π ⁻ Albrecht 90E Danilov 89	D ⁺ (2010) ⁻ ℓ ⁺ ℓ ⁻ Schubert 89	K ⁺ (1680) ⁰ γ Albrecht 89L	K ⁻ e ⁻ X Gray 87
2π ⁺ π ⁰ 2π ⁻ Albrecht 90E	D ⁺ (2010) ⁻ μ ⁺ ν _μ Albrecht 89C Bortoletto 89B Danilov 89 Wagner 89B Albrecht 87O Albrecht 87P	K ⁺ (892) ⁺ π ⁻ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ⁻ J/ψ(1S) π ⁺ Schubert 89
2ρ ⁰ Albrecht 90E Hallings 89 Schubert 89 Thorndike 88	D ⁺ (2010) ⁻ π ⁺ π ⁰ Hallings 89 Schubert 89 Thorndike 88 Albrecht 87B Albrecht 87P	K ⁺ (892) ⁻ π ⁺ Thorndike 88	K ⁻ μ ⁻ X Gray 87
3π ⁺ 3π ⁻ Albrecht 90E Danilov 89	D ⁺ (2010) ⁻ π ⁺ Hallings 89 Schubert 89 Thorndike 88 Albrecht 87B Albrecht 87P	K ⁺ (892) ⁰ 2K ⁺ (892) ⁰ Alam 89	K ⁻ π ⁺ Thorndike 88
3π ⁺ π ⁰ 3π ⁻ Albrecht 90E a ₁ (1260) ⁺ a ₁ (1260) ⁻ Albrecht 90E Hallings 89	D ⁺ (2010) ⁻ π ⁺ Hallings 89 Schubert 89 Thorndike 88 Albrecht 87B Albrecht 87P Albrecht 85N	K ⁺ (892) ⁰ e ⁻ e ⁺ Albrecht 89U Avery 89B Hallings 89	K ⁰ e ⁻ e ⁺ Avery 87
a ₁ (1260) ⁺ π ⁻ + a ₁ (1260) ⁻ π ⁺ Hallings 89	D ⁺ (2010) ⁻ π ⁺ Hallings 89 Chen 85	K ⁺ (892) ⁰ f ₀ (1400) Hallings 89	K ⁰ f ₀ (1400) Hallings 89
a ₁ (1260) ⁺ π ⁻ Albrecht 90E Thorndike 88	D ⁻ e ⁺ ν _e Danilov 89	K ⁺ (892) ⁰ f ₂ (1270) Hallings 89	K ⁰ f ₂ (1270) Avery 89B
a ₁ (1260) ⁺ ρ ⁻ Albrecht 90E	D ⁻ ℓ ⁺ ν Albrecht 89N Albrecht 89Q	K ⁺ (892) ⁰ f ₂ (1270) Avery 89B	K ⁰ higgs Alam 89
a ₁ (1260) ⁺ π ⁺ Thorndike 88	D ⁻ μ ⁺ ν _μ Danilov 89	K ⁺ (892) ⁰ γ Albrecht 89L Avery 89B Danilov 89 Hallings 89 Albrecht 88E Avery 87	K ⁰ J/ψ(1S) Hallings 89 Schubert 89 Alam 86
a ₁ (1260) ⁰ π ⁰ Albrecht 90E	D ⁻ π ⁺ π ⁰ Schubert 89 Albrecht 88M Danilov 88 Thorndike 88	K ⁺ (892) ⁰ higgs Alam 89	K ⁰ μ ⁻ μ ⁺ Avery 87
a ₁ (1260) ⁰ ρ ⁰ Albrecht 90E	D ⁻ π ⁺ Hallings 89 Schubert 89 Albrecht 88M Danilov 88 Thorndike 88	K ⁺ (892) ⁰ J/ψ(1S) Hallings 89 Thorndike 88 Albrecht 87G Alam 86	K ⁰ φ Avery 89B Hallings 89 Avery 87
a ₂ (1320) ⁺ π ⁻ + a ₂ (1320) ⁻ π ⁺ Hallings 89	D ⁻ ρ ⁺ Hallings 89 Albrecht 88M Danilov 88	K ⁺ (892) ⁰ K ⁺ (892) ⁻ K ⁺ Alam 89	K ⁰ π ⁺ π ⁻ Alam 89
B ⁰ Weir 90 Artuso 89 Danilov 89 Drell 89 Eggert 89 Franzini 89 Hurst 89 Itep 89 Porter 89 Band 88 Dowell 88 Sugahara 88B Tao 88 Albajar 87C Albrecht 87P Bean 87B Gittelman 87 Summers 87 Schaad 85	D _S ⁺ D ⁻ Hallings 89 Schubert 89	K ⁺ (892) ⁰ K ⁺ (892) ⁰ K ⁰ Alam 89	K ⁰ ρ ⁰ Avery 89B Hallings 89 Avery 87
D ⁺ (2010) ⁺ ℓ ⁻ ℓ ⁻ Hallings 89	D ⁰ ρ ⁰ Danilov 88	K ⁺ (892) ⁰ K ⁺ K ⁻ Alam 89	K ₁ (1270) ⁰ γ Albrecht 89L
D ⁺ (2010) ⁺ μ ⁻ ν _μ Wagner 89B	D ⁰ π ⁺ π ⁻ Thorndike 88	K ⁺ (892) ⁰ K ⁺ K ⁻ Alam 89	K ₁ (1400) ⁺ π ⁻ Albrecht 89S
D ⁺ (2010) ⁺ X Averill 89	D ⁰ π ⁻ e ⁺ ν _e Albrecht 89C	K ⁺ (892) ⁰ K ⁺ K ⁻ Alam 89	K ₁ (1400) ⁰ γ Albrecht 89L Albrecht 88E
D ⁺ (2010) ⁻ 2π ⁺ π ⁻ Hallings 89 Schubert 89 Thorndike 88 Albrecht 87B Albrecht 87P	D ⁰ ρ ⁰ Albrecht 88M	K ⁺ (892) ⁰ μ ⁻ μ ⁺ Alam 89 Albrecht 89U Avery 89B Hallings 89	K ₁ (1400) ⁰ φ Albrecht 89S
D ⁺ (2010) ⁻ e ⁺ ν _e Albrecht 89C Bortoletto 89B Danilov 89 Wagner 89B Albrecht 87O Albrecht 87P	D ⁰ π ⁺ π ⁻ Hallings 89 Schubert 89	K ⁺ (892) ⁰ φ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₁ (1400) ⁰ ρ ⁰ Albrecht 89S
	D ⁰ π ⁻ e ⁺ ν _e Albrecht 89C	K ⁺ (892) ⁰ φ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₂ (1430) ⁺ π ⁻ Albrecht 89S
	D ⁰ π ⁻ μ ⁺ ν _μ Albrecht 89C	K ⁺ (892) ⁰ φ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₂ (1430) ⁰ γ Albrecht 89L Albrecht 88E
	D ⁰ ρ ⁰ Albrecht 88M	K ⁺ (892) ⁰ φ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₂ (1430) ⁰ ρ ⁰ Albrecht 89S
	Δ(1232 P ₃₃) ⁺⁺ Δ(1232 P ₃₃) ⁻⁻ Hallings 89	K ⁺ (892) ⁰ φ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₂ (1430) ⁰ φ Albrecht 89S
	Δ(1232 P ₃₃) ⁰ Δ(1232 P ₃₃) ⁰ Hallings 89	K ⁺ (892) ⁰ φ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₂ (1430) ⁰ ρ ⁰ Albrecht 89S
	e ⁺ ν _e X Drell 89	K ⁺ (892) ⁰ higgs Alam 89	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
	e ⁺ X Weir 90 Porter 89	K ⁺ (892) ⁰ ψ(2S) Albrecht 87G	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
	e [±] X Gray 87	K ⁺ (892) ⁰ ρ ⁰ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
	e ⁻ e ⁺ Avery 89B Hallings 89 Thorndike 88 Avery 87	K ⁺ (892) ⁰ ρ ⁰ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
	e ⁻ X Bean 87B	K ⁺ (892) ⁰ ρ ⁰ Albrecht 89S Avery 89B Danilov 89 Hallings 89 Avery 87	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ (892) ⁰ higgs Alam 89	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ (892) ⁰ ψ(2S) Schubert 89	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ e ⁻ X Gray 87	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ K ⁰ K ⁻ Alam 89	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ K _S K ⁻ Albrecht 89U	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ μ ⁻ X Gray 87	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E
		K ⁺ π ⁻ Albrecht 89S Avery 89B	K ₃ (1780) ⁰ γ Albrecht 89L Albrecht 88E

B⁰

\bar{B} (unspec)

B⁰	b₁(1235)⁰	baryonium	\bar{B}
$\mu^+ \nu_\mu X$ Drell 89	$\omega \pi^0$ Augustin 88B Brau 88	$p \bar{p}$ Bodenkamp 85	$\bar{p} X$ Danilov 88
$\mu^+ X$ Weir 90 Porter 89 Summers 87	$\pi^+ \pi^-$ Malik 89B	$\bar{p} \Lambda K^+ \pi^+$ Alev 89 Alev 88E Alev 88F	$\psi(2S) X + \chi_c(\text{unspec}) X + J/\psi(1S) X$ Danilov 88
$\mu^\pm X$ Gray 87	Ba Kozma 90 Kozina 88	$\bar{p} \Lambda K^+ \pi^-$ Alev 89 Alev 88E Alev 88F	\bar{B}(unspec) Albrecht 89E Albrecht 88G Alam 87 Wu 87 Haas 85
$\mu^- e^+ + \mu^+ e^-$ Halling 89	128Ba Hufner 85	$\bar{p} \Lambda K^+$ Alev 89 Alev 88F	D*(2010)⁻ X Harder 89 Bartoletto 87
$\mu^- e^+$ Avery 89B Thornlike 88 Avery 87	131Ba Hufner 85	$\pi^+ \pi^-$ Daftari 87 Tanimori 85	D⁻ X Harder 89 Bartoletto 87
$\mu^- \mu^+$ Avery 89B Halling 89 Albajar 88C Thornlike 88 Avery 87	134Ba Barabash 90 Barabash 89 Barabash 89B	$\pi^0 \text{ exoti-meson}$ May 89	D_{S}^{*-}} X Albrecht 87D
$\mu^- X$ Band 88 Albajar 87C Bean 87B Summers 87	136Ba Barabash 90 Artemiev 89 Barabash 89 Barabash 89B Bellotti 89 Ajnutdinov 88 Rosen 88 Barabash 87 Barabanov 86	$\rho^+ \rho^-$ Liu 88	D_{S}^{*+}} X Haas 86
$\omega \pi^0$ Albrecht 90E	140Ba Hufner 85	baryonium(S = +1) $p \bar{\Lambda} 2\pi^-$ Alev 88D	D_{S}^- X} Albrecht 87D
$p \bar{p} \pi^+ \pi^-$ Bebek 89 Schubert 89 Albrecht 88T	baryon Albrecht 90C Drutskoy 89 Bogolyubsky 88B Danilov 88 Schmidt 88 Schmidt 87	$p \bar{\Lambda} \pi^+ \pi^-$ Alev 88D	D_{S}^0 X} Harder 89 Bartoletto 87
$p \bar{p}$ Halling 89 Schubert 89 Thornlike 88	$p \pi^+ \pi^-$ Amelin 87	$p \bar{\Lambda} \pi^+$ Alev 88D	D_{S}^+ X} Wachs 89
$\pi^+ 2\pi^0 \pi^-$ Albrecht 90E Danilov 89	baryon Danilov 88 Batyunya 87H	$p \bar{\Lambda} \pi^-$ Alev 88D	e[±] ν_c charmed-meson Wachs 89
$\pi^+ \pi^-$ Albrecht 90E Danilov 89 Halling 89 Schubert 89 Thornlike 88	baryonium Omori 89 Chiba 87 Chiba 87B Angelopoulos 86 Bridges 86 Sapozhnikov 86	\bar{B} Behrends 87 Cassel 85 Mestayer 85	e[±] X Wachs 89 Tao 88
$\pi^+ \pi^0 \pi^-$ Albrecht 90E Danilov 89	2π⁺ 2π⁻ Bridges 86C Bridges 86D	baryon X Danilov 88	e⁻ e⁺ X Bean 87
$\pi^- e^+ \nu_e$ Danilov 89	2p⁰ Liu 88 Bridges 86D	baryon X Danilov 88	J/ψ(1S) π⁺ π⁻ X Albrecht 87G
$\pi^- \ell^+ \bar{\nu}$ Schubert 89	charged-meson X Angelopoulos 85	charged (charged) (neutrals) Braunschweig 89L	J/ψ(1S) X Maschmann 89 Albrecht 87G Alam 86 Albrecht 85K
$\pi^- \mu^+ \nu_\mu$ Danilov 89	$K^+ K^-$ Tanimori 85	D⁺ X Danilov 88	K⁺ J/ψ(1S) 2π Albrecht 87G Albrecht 85K
$\rho^+ \pi^-$ Albrecht 90E	$p \bar{\Lambda} K^- \pi^+$ Alev 89 Alev 88E Alev 88F	D_{S}^+} X Danilov 88	K⁺ J/ψ(1S) 3π Albrecht 85K
$\rho^+ \rho^-$ Albrecht 90E Danilov 89	$p \bar{\Lambda} K^- \pi^-$ Alev 89 Alev 88E Alev 88F	D⁰ X Danilov 88	K⁺ J/ψ(1S) π Albrecht 87G Albrecht 85K
$\rho^0 \pi^0$ Albrecht 90E Danilov 89	$p \bar{\Lambda} K^-$ Alev 89 Alev 88F	$\bar{D} \mu^+ X$ Bordalo 88	K⁻ J/ψ(1S) 2π Albrecht 85K
b₁(1235)⁺	$p \bar{p} K^+ K_S$ Alev 89 Alev 88E Alev 88F	e⁺ ν_c X Danilov 88	K⁻ J/ψ(1S) 3π Albrecht 85K
$\omega \pi^+$ Landsberg 86 Augustin 88B Sedlak 88 Atkinson 80B	$p \bar{p} K_S K^-$ Alev 89 Alev 88E Alev 88F	higgs X Alam 89 Snyder 89	K⁻ J/ψ(1S) π Albrecht 85K
b₁(1235)⁻	$\eta \pi^+ \pi^-$ Takanatsu 89	ΛX Danilov 88	K⁻ J/ψ(1S) 2π Albrecht 85K
$\omega \pi^-$ Augustin 88B Sedlak 88 Aleshin 87C Aleshin 87D Aleshin 86B Atkinson 86B		$\Lambda_c^+ X$ Danilov 88	K⁻ J/ψ(1S) 3π Albrecht 85K
b₁(1235)⁰		$\bar{\Lambda} X$ Danilov 88	K_S J/ψ(1S) 2π Albrecht 87G
$\eta \pi^+ \pi^-$ Diekmann 88 Takanatsu 89		$\ell^- \nu X$ Artuso 89	K_S J/ψ(1S) π Albrecht 87G
		$\mu^+ \nu_\mu X$ Danilov 88	$\Lambda \bar{\Lambda} X$ Alam 87B
		$\mu^+ X$ Band 89	$\bar{\Lambda}_c^- X$ Alam 87B
		$\mu^- \mu^+ X$ Alam 89	$\bar{\Lambda} X$ Alam 87B
		$p X$ Danilov 88	$\mu^- \mu^+ X$ Bean 87
			$p \bar{p} X$ Alam 87B

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

\bar{B} (unspec)

\bar{B} (unspec)	
$\bar{p} X$	Alam 87B
ϕX	Bartoletto 86
$\pi^+ \pi^- e^-$	$\pi^+ X$ Albrecht 87G
$\pi^+ \pi^- \mu^-$	$\mu^- X$ Albrecht 87G
$\psi(2S) X$	Albrecht 87G

\bar{B}^0	
	Albrecht 90D Albrecht 90E Albrecht 89Q Albrecht 89U Artuso 89 Danilov 89 Franzini 89 Hurst 89 Itep 89 Tao 88 Summers 87
$2K^*(892)^0$	$\bar{K}^*(892)^0$ Alam 89
$2\rho^0$	Bartoletto 89 Drell 89 Halling 89 Thorndike 88 Bebek 87B
$a_1(1260)^+$	$a_1(1260)^-$ Drell 89 Halling 89
$a_1(1260)^+$	$\pi^- +$
$a_1(1260)^-$	π^+ Drell 89 Halling 89
$a_1(1260)^+$	π^- Thorndike 88
$a_1(1260)^+$	ρ^- Bebek 87B
$a_1(1260)^-$	π^+ Thorndike 88
$a_1(1260)^-$	ρ^+ Bebek 87B
$a_2(1320)^+$	$\pi^- +$
$a_2(1320)^-$	π^+ Drell 89 Halling 89
$a_2(1320)^+$	ρ^- Bebek 87B
$a_2(1320)^-$	ρ^+ Bebek 87B
B^0	Eggert 89 Kreinick 89 Miller 89 Porter 89 Band 88 Dowell 88 Bean 87B Gittelmann 87 Schaad 85
$D^*(2010)^+$	$a_1(1260)^+$ Kreinick 89 Miller 89
$D^*(2010)^+$	$e^- \bar{\nu}_e$ Albrecht 89C Bartoletto 89B Miller 89 Wagner 89B Danilov 88 Albrecht 87A
$D^*(2010)^+$	$\mu^- \bar{\nu}_\mu$ Albrecht 89C Bartoletto 89B Miller 89 Danilov 88 Albrecht 87A

B^0	
$D^*(2010)^+$	$\pi^+ 2\pi$ Albrecht 87P Halling 89 Kreinick 89 Miller 89 Thorndike 88 Albrecht 87B Albrecht 87P Bebek 87B Gittelmann 87 Schindler 87
$D^*(2010)^+$	π^- Bartoletto 89 Halling 89 Kreinick 89 Miller 89 Thorndike 88 Albrecht 87B Albrecht 87P Bebek 87B Gittelmann 87 Schindler 87 Cassel 85
$D^*(2010)^+$	$\pi^0 e^- \bar{\nu}_e$ Miller 89
$D^*(2010)^+$	$\pi^0 \mu^- \bar{\nu}_\mu$ Miller 89
$D^*(2010)^+$	$\pi^0 \pi^-$ Halling 89 Thorndike 88 Albrecht 87B Albrecht 87P Gittelmann 87 Schindler 87
$D^*(2010)^+$	ρ^- Halling 89 Kreinick 89 Miller 89 Chen 85
$D^*(2010)^-$	$L^+ \nu$ Halling 89
$D^*(2010)^-$	X Averill 89
$D^*(2010)^0$	$\pi^+ e^- \bar{\nu}_e$ Miller 89
$D^*(2010)^0$	$\pi^+ \mu^- \bar{\nu}_\mu$ Miller 89
$D^+ \pi^-$	Halling 89 Kreinick 89 Miller 89 Albrecht 88M Danilov 88 Thorndike 88
$D^+ \rho^-$	Halling 89 Albrecht 88M Danilov 88
$D^- X$	Albanese 85
$D_S^+ K^-$	Bartoletto 90
$D_S^- D^*(2010)^+$	Bartoletto 90
$D_S^- D^+$	Bartoletto 90 Kreinick 89 Miller 89
$D_S^- D^0 \pi^+$	Bartoletto 90 Halling 89 Kreinick 89 Miller 89

B^0	
$D_S^- \pi^+$	Bartoletto 90
$D^0 \pi^+ e^-$	$\bar{\nu}_e$ Albrecht 89C Danilov 88
$D^0 \pi^+ \mu^-$	$\bar{\nu}_\mu$ Albrecht 89C Danilov 88
$D^0 \pi^+ \pi^-$	Thorndike 88 Bebek 87B Gittelmann 87 Schindler 87 Cassel 85
$D^0 \rho^0$	Albrecht 88M Danilov 88
$\Delta(1232 F_{33})^{++}$	
$\bar{\Delta}(1232 F_{33})^{--}$	Halling 89
$\Delta(1232 F_{33})^0 \bar{\Delta}(1232 F_{33})^0$	Halling 89
$e^+ X$	Bean 87B
$e^\pm X$	Gray 87
$e^- e^+$	Avery 89B Halling 89 Thorndike 88 Avery 87
$e^- \bar{\nu}_e X$	Drell 89 Miller 89
$e^- X$	Weir 90 Porter 89
$K^*(892)^+ \bar{K}^*(892)^0 K^-$	Alam 89
$K^*(892)^+ \pi^-$	Thorndike 88
$K^*(892)^- \pi^+$	Albrecht 89S Avery 89B Halling 89 Avery 87
$K^*(892)^0$ higgs	Alam 89
$K^*(892)^0 \bar{K}^*(892)^0 \bar{K}^0$	Alam 89
$K^*(892)^0 \phi$	Gittelmann 87
$\bar{K}^*(1680)^0 \gamma$	Albrecht 89L
$\bar{K}^*(892)^0 e^- e^+$	Avery 89B Halling 89
$\bar{K}^*(892)^0 f_0(1400)$	Halling 89
$\bar{K}^*(892)^0 f_2(1270)$	Avery 89B
$\bar{K}^*(892)^0 \gamma$	Albrecht 89L Avery 89B Halling 89 Albrecht 88E Avery 87
$\bar{K}^*(892)^0$ higgs	Alam 89
$\bar{K}^*(892)^0 J/\psi(1S)$	Halling 89 Kreinick 89 Miller 89
$\bar{K}^*(892)^0$ higgs	Alam 89
$\bar{K}^*(892)^0 J/\psi(1S)$	Halling 89 Kreinick 89 Miller 89
$\bar{K}^*(892)^0 K^+ K^-$	Alam 89

B^0	
$\bar{K}^*(892)^0 \mu^- \mu^+$	Alam 89 Avery 89B Halling 89
$\bar{K}^*(892)^0 \phi$	Albrecht 89S Avery 89B Halling 89 Avery 87
$\bar{K}^*(892)^0 \pi^+ \pi^-$	Alam 89
$\bar{K}^*(892)^0 \psi(2S)$	Kreinick 89 Miller 89 Albrecht 87G
$\bar{K}^*(892)^0 \rho^0$	Albrecht 89S Avery 89B Halling 89 Avery 87
$K^+ K^- \pi^+$	Bartoletto 90
$K^+ \bar{K}^0 K^-$	Alam 89
$K^+ \pi^-$	Thorndike 88
$K^- J/\psi(1S) \pi^+$	Kreinick 89 Miller 89
$K^- \pi^+$	Albrecht 89S Avery 89B Halling 89 Avery 87
$K_1(1400)^- \pi^+$	Albrecht 89S
$\bar{K}_1(1270)^0 \gamma$	Albrecht 89L
$\bar{K}_1(1400)^0 \gamma$	Albrecht 89L Albrecht 88E
$\bar{K}_1(1400)^0 \phi$	Albrecht 89S
$\bar{K}_1(1400)^0 \rho^0$	Albrecht 89S
$K_2^*(1430)^- \pi^+$	Albrecht 89S
$\bar{K}_2^*(1430)^0 \gamma$	Albrecht 89L Albrecht 88E
$\bar{K}_2^*(1430)^0 \phi$	Albrecht 89S
$\bar{K}_2^*(1430)^0 \rho^0$	Albrecht 89S
$\bar{K}_3^*(1780)^0 \gamma$	Albrecht 89L Albrecht 88E
$\bar{K}_4^*(2045)^0 \gamma$	Albrecht 89L
$\bar{K}^0 e^- e^+$	Avery 87
$\bar{K}^0 f_0(1400)$	Halling 89
$\bar{K}^0 f_2(1270)$	Avery 89B
\bar{K}^0 higgs	Alam 89
$\bar{K}^0 J/\psi(1S)$	Halling 89 Kreinick 89 Miller 89 Alam 86
$\bar{K}^0 \mu^- \mu^+$	Avery 87
$\bar{K}^0 \phi$	Avery 89B Halling 89
$\bar{K}^0 \pi^+ \pi^-$	Alam 89

 \bar{B}^0

B⁰		203Bi		bottom
$K^0 \psi(2S)$	Kreinick 89 Miller 89	Drell 89 Halling 89 Thorndike 88 Bebek 87B	Butsev 85	Summers 87 Barate 86C Saxon 86 Kiesling 85 Marshall 85
$K^0 \rho^0$	Avery 80E Halling 89 Avery 87	$p X$	204Bi	charm X
$K_S e^- e^+$	Thorndike 88	$\bar{p} e^+ X$	Butsev 85	charm-meson X
$K_S J/\psi(1S)$	Albrecht 87G	$\bar{p} \Lambda X$	black	Badier 85D Benvenuti 85
$K_S K^- \pi^+$	Bortoletto 90	$\bar{p} \mu^+ X$	Butsev 85	$e^+ X$
$K_S \mu^- \mu^+$	Thorndike 88	$\bar{p} X$	Antonchik 90 Gill 90	Ong 88B
$K_S \phi$	Albrecht 89S	$\pi^+ \ell^- \bar{\nu}$	Adamovich 89C Ahmad 89 Ameeva 89	$e^\pm X$
$K_S \rho^0$	Albrecht 89S Thorndike 88	$\pi^+ \pi^-$	Ammar 89 Ammar 89B Andreeva 89	Sakuda 85
$\Lambda e^+ X$	Schubert 89	$\rho^+ \pi^-$	Brick 89 Lepekhiu 89	$e^- X$
$\Lambda \mu^+ X$	Schubert 89	$\rho^- \pi^+$	Abdurzhamilov 88B Abdurzhamilov 88C	Ong 89 Brom 87 Ong 87 Klem 86 Aihara 85F Venkataraman 85B
ΛX	Schubert 89	Be	Khan 88 Krasnov 88 Krasnov 88B Ramello 88	γ strange
$\Lambda_c^+ X$	Schubert 89	Antipov 89C Efendiev 89	Shivpuri 88B Tret'yakova 88	higgs strange
$\bar{\Lambda} e^+ X$	Schubert 89	Ananikyan 87	Abdurazakova 87	Gilman 89
$\bar{\Lambda} \mu^+ X$	Schubert 89	Sangster 87	Abdurzhamilov 87	$J/\psi(1S) X$
$\bar{\Lambda} X$	Schubert 89	Aivazyan 86	Antonchik 87	Albajar 88D Albajar 88E Badier 85D
$\mu^+ e^-$	Avery 89B Thorndike 88 Avery 87	Aivazyan 86B	Ardito 87	$\Lambda K_S 2\pi^+ 2\pi^-$
$\mu^+ X$	Band 88 Bean 87B	Petersen 86	Elnaghy 87	$\ell^+ \ell^-$ strange
$\mu^\pm X$	Gray 87	Sokoloff 86	Krasnov 97	$\mu^+ X$
$\mu^- e^+ + \mu^+ e^-$	Halling 89	Alkhazov 85B	Shivpuri 87	Ong 88B
$\mu^- e^+$	Avery 89B Thorndike 88 Avery 87	Antipov 85	Ahrar 86	Badier 85D
$\mu^- \mu^+$	Avery 89B Halling 89	Roy 85B	Andreeva 86	Bartel 86G Aihara 85E Arnison 85
$\mu^- \bar{\nu}_\mu X$	Drell 89 Miller 89	Zajmidoroga 85	Krasnov 86	μ^- charmed-meson X
$\mu^- X$	Weir 90 Porter 89 Albajar 87C	10Be	Voyvodic 86	Catanesi 88 Catanesi 86
$p e^+ X$	Schubert 89	Kobayashi 89B Kobayashi 89C Hoistad 86	Absemetova 85	$\mu^- \mu^+ X$
$p \bar{\Lambda} X$	Schubert 89	8Be dibaryon ($S = -1$) Ejiri 89	Azimov 85G Babecki 85	$\mu^- \bar{\nu}_\mu$ charm
$p \mu^+ X$	Schubert 89	10Bess	Batusov 85	Ereditato 85
$p \bar{p} e^+ X$	Schubert 89	9Bes $p \pi^-$	Vokalova 85	Catanesi 89
$p \bar{p} \mu^+ X$	Schubert 89	May 89B	Bor	$\mu^- X$
$p \bar{p} \pi^+ \pi^-$	Bebek 89 Drell 89 Albrecht 88T Sugahara 88B	7Be	Avejchikov 87 Avejchikov 87B Avejchikov 87C Avejchikov 87E Avejchikov 87F Avejchikov 87G Avejchikov 87H Avejchikov 87I	Ong 89 Albajar 88C Albajar 88D Albajar 88F Ong 88 Bartel 87C Ong 87 Albajar 86C Badier 85D Benvenuti 85 Venkataraman 85B
$p \bar{p} X$	Schubert 89	Anuroyan 89 Avramenko 87 Irom 85	Aivazyan 86	mult[charged] (neutrals)
$p \bar{p}$	Bortoletto 89	8Be	Aivazyan 86B	Sakuda 85
		Ejiri 89	10Bor	$\bar{\nu}_e X$
		Savage 88C Pniewski 85	Hallin 86	Duffy 88
		8Be*	10Bor*	Duffy 88
		8Be $e^- e^+$	Hallin 86	$q \bar{q}$ strange
		8Be meson⁰	11Bor	Gilman 89
		Savage 88C	Alkhazov 85B Ziegler 85	bottom
		Savage 88C	11Bor*	Braunschweig 89C Piccolo 89
		9Be	Ziegler 85	Dowell 88
		Hiel 89	12Bor	Albajar 87C Ash 87B
		Kobayashi 89C	Hasinoff 89 Hasinoff 88	Sumners 87 Saxon 86 Kiesling 85 Marshall 85
		9Bes	bottom	charmed-meson X
		24He $p \pi^-$	Braunschweig 89C Piccolo 89	Benvenuti 85
		May 89B	Dowell 88	$e^+ X$
		8Be $p \pi^-$	Kichimi 88	Ong 89 Brom 87 Ong 87
		Pniewski 85	Albajar 87C Ash 87B Camporesi 87	
		203Bi	Butsev 85	

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

bottom

bottom	Klem 86 Venkataraman 85B	b	ℓ^- hadron (hadrons) Behrend 89J	b̄	mult[charged] (neutrals) Braunschweig 89C	⁷⁶Br	Butsev 85	
$e^\pm X$	Sakuda 85	$\mu^+ X$	Marshall 89 Barlow 87	$p X$	Aihara 87C	⁷⁰Br	Butsev 85	
$e^- X$	Ong 88B	μ^\pm hadron (hadrons) Kimi 89E	$\mu^- 2$ hadron (hadrons) Sagawa 89	$\bar{p} X$	Aihara 87C	⁷⁷Br	Butsev 85	
$J/\psi(1S) X$	Albajar 88D Albajar 88E	$\mu^- \mu^+ X$	$\mu^- X$	$\pi^+ X$	Aihara 87C	C	Ananikyan 87 Avdeichikov 87 Avdeichikov 87B Avdeichikov 87C Avdeichikov 87E Avdeichikov 87F Avdeichikov 87G Avdeichikov 87H Avdeichikov 87I	
μ^+ charmed-meson X	Catanesi 88 Catanesi 86	$\mu^- X$	Adeva 90D Kroha 89B Naroska 87	$\pi^- X$	Aihara 87C	C(1480)	Antipov 86 Antipov 86B Huston 86 Piragino 86B Ableev 85 Antipov 85 Antipov 85B Antipov 85C Birsas 85 Zajmidoroga 85	
μ^+ ν_μ charm	Catanesi 89	mult[charged] (neutrals) Braunschweig 89C	$u X$	s gluon	Albrecht 89S	$e^- e^+$	Dolinsky 89B	
$\mu^+ X$	Ong 89 Albajar 88C Albajar 88D Albajar 88F Bartel 87C Ong 87 Albajar 86C Benvenuti 85 Venkataraman 85B	$p X$	Albrecht 90D Artuso 89B Kreineck 89 Miller 89	c higgs ⁻	Abrams 89F	$K^*(892)^+ K^-$	Aulchenko 87B Aulchenko 86C	
$\mu^\pm X$	Bartel 86G Arnison 85	$\bar{p} X$	Aihara 87C	$c X$	Abrams 89F	$K^*(892)^- K^+$	Bituykov 86B	
$\mu^- \mu^+ X$	Ereditato 85	$\pi^+ X$	Aihara 87C	$\bar{c} c s$	Eno 89B	$\omega \pi^0$	Bituykov 86B	
$\mu^- X$	Ong 88B mult[charged] (neutrals) Sakuda 35	$\pi^- X$	Aihara 87C	$e^- \bar{\nu}_e c$	Eno 89B	$\phi \pi^0$	Aulchenko 87B Landsberg 87 Prokoshkin 87B Aulchenko 86C Bituykov 86B	
$\nu_e X$	Duffy 88	s gluon	Albrecht 89S	γb	Abrams 89F Eno 89B Eno 89C	$\phi \pi$	Landsberg 89	
$\nu_\mu X$	Duffy 88	$u X$	Albrecht 90D Artuso 89B Kreineck 89 Miller 89	$c d \bar{u}$	Eno 89B	C(1480)⁺	$\phi \pi^+$	Falvard 88
b	Akesson 90C Albajar 90E Barbarogalti 90 Decamp 90C Decamp 90E Elsen 90 Abrams 89F Adachi 89E Barbarogalti 89 Eno 89B Eno 89C Felcini 89 Kral 89 Nozaki 89 Ouldsaada 88B Plothowbesch 88 Wu 87	b̄	Albajar 90E Barbarogalti 90 Decamp 90C Decamp 90E Elsen 90 Barbarogalti 89 Eno 89B Felcini 89 Kral 89 Nozaki 89 Ouldsaada 88B Plothowbesch 88 Wu 87	γq	Abe 89J	C(1480)⁻	$\phi \pi^-$	Falvard 88
2hadron (hadrons)	Ogawa 89 Rowson 85	bottom X	Bartel 87C	$\mu^- \nu_\mu c$	Albajar 90E	C(1480)⁰	$\phi \pi^0$	Landsberg 89 Augustin 88C Landsberg 88 Bituykov 86 Bituykov 85
bottom X	Bartel 87C	$e^+ \nu_e \bar{c}$	Pal 86	$\mu^- \bar{\nu}_\mu c$	Eno 89B	C⁻	Apokin 86C	
$e^+ X$	Marshall 89	$e^+ X$	Kroha 89B Naroska 87	$\tau^- \bar{\nu}_\tau c$	Eno 89B	Cs	Bertini 84	
$e^- \bar{\nu}_e c$	Pal 86	$e^- X$	Marshall 89	$W^+ c$	Adachi 89E	¹⁰C	Hoistad 86	
$e^- X$	Kroha 89B Naroska 87	$\gamma \bar{s}$	Albrecht 89L	$W^- c$	Eno 89C	¹¹C	Arakelyan 90 Kozma 89B	
γs	Albrecht 89L	jet X	Braunschweig 89C Kroha 89B	b̄	Abreu 90B Abrams 89F Akrawy 89B Eno 89C	¹²C	Kalantarnaye 89 Naumenko 89 Sedlak 88 Ardito 87 Marx 86	
jet X	Braunschweig 89C Kroha 89B	$K^+ X$	Aihara 87C	$\bar{b} 2$ gluon	Eno 89B			
$K^+ X$	Aihara 87C	$K^- X$	Aihara 87C	\bar{b} gluon	Eno 89B			
$K^- X$	Aihara 87C	ℓ^+ hadron (hadrons) Behrend 89J	ℓ^+ hadron (hadrons) Sagawa 89	$\bar{b} q \bar{q}$	Eno 89B			
$\ell \nu c$	Artuso 89B Behrends 87	μ^+ 2hadron (hadrons) Sagawa 89	$\mu^+ X$	$\bar{c} c \bar{s}$	Eno 89B			
$\ell \nu u$	Artuso 89B Behrends 87	$\mu^+ X$	Adeva 90D Kroha 89B Naroska 87 Kim 89E	$\bar{c} \bar{d} u$	Eno 89B			
		$\mu^- \mu^+ X$	Naroska 87	$e^+ \nu_e \bar{c}$	Eno 89B			
		$\mu^- X$	Marshall 89 Barlow 87	$\gamma \bar{b}$	Eno 89B			
				$\gamma \bar{q}$	Abe 89J			
				$\mu^+ \nu_\mu \bar{c}$	Eno 89B			
				$\tau^+ \nu_\tau \bar{c}$	Eno 89B			
				Br	Kozma 90			

¹² C	Alkhazov 85B Lichtenstadt 85	Ce⁺ ¹³⁹ Ce γ	Dickey 85	chargino⁻ $\mu^- \bar{\nu}_\mu$ photino	charm $e^- X$	Ong 88B Ong 87 Klem 86
¹² C ⁺	Apokin 89B	¹³² Ce	Butsev 85	$q \bar{q}$ photino	$\mu^- X$	Catanesi 89 Albajar 88C Albajar 88F Foudas 88 Foudas 88B Ong 88B Sviridov 88 Ushida 88B Bartel 87C Cobbaert 87B Ong 87 Arneodo 86F Erriquez 85
¹² C γ	Naumenko 89	¹³⁸ Ce	Butsev 85	$\tau^- \bar{\nu}_\tau$ photino	charm	mult[charged] X Erriquez 85
¹³ C	Alkhazov 85B Deboer 85	¹³⁰ Ce	Dickey 85 Hufner 85	$e^+ X$	$\bar{\nu}_e X$	Duffy 88 Duffy 85 Romanowski 85
¹³ C ⁺	axion X $e^- e^+ X$	centauro	Ren 88B Borisov 87B Burov 87 Ainer 86C Ward 86B	$e^- X$	$\bar{\nu}_\mu X$	Duffy 88 Dorenbosch 87 Duffy 85 Romanowski 85
¹⁴ C	Holtkamp 85 Mishra 85 Roehrich 85	charged-hadron	Akrawy 90L Decamp 90F Gladney 90 Abe 89L Abrams 89E Albrecht 89W Ballagh 89 Jongejans 89 Komamiya 89C Li 89B Weinstein 89 Bernstein 88 Yamauchi 88 Bailey 87F Bartel 87B Berger 87B Schurman 87 Aihara 86I Althoff 86B Derrick 86C Aihara 85C Aksess 85 Ammosov 85C Arneodo 85 Arneodo 85B Aubert 85B Blinov 85E Derrick 85D Fernandez 85D Kesten 85 Rowson 85B Ammosov 84H Bender 84C	$\mu^+ X$	charmed-meson	Wormser 89 Roudeau 88 Ushida 88 Aguliarbenit 87C Schindler 87 Duffy 86 Benvenuti 85 Asratyan 87B K ⁰ Asratyan 87B K ⁺ Asratyan 87B
Ca	Ahmad 87 Blecher 87			$e^+ X$	$e^+ X$	Ammosov 87D
Ca⁺	Koch 89 Ahmad 88 Berezhnoj 85			$e^- X$	$e^\pm X$	Wachs 89 Elsen 90
⁴⁰ Ca γ	Ullmann 85			$\mu^+ X$	ℓ hadron (hadrons)	
⁴⁰ Ca	Koch 89 Lee 88 Piragino 86B Berezhnoj 85 Lichtenstadt 85 Ullmann 85			$\mu^\pm X$	$\mu^\pm X$	Mooney 89 Catanesi 88 Sviridov 88 Ginther 87 Catanesi 86 Tzeing 85
⁴² Ca	Hardy 89	charged-lepton	Bernstein 88 Bartel 85F	$\mu^- X$	$\mu^- X$	Badier 85D
⁴⁴ Ca	Ohkubo 85	charged-meson	Angelopoulos 85	$\mu^- X$	$\nu_e X$	Duffy 88
⁴⁷ Ca	Ohkubo 85	chargino	Barklow 90	mult[charged] X	$\nu_\mu X$	Duffy 88
⁴⁸ Ca	Wise 85	chargino⁺	Adachi 89	$\nu_e X$	charmed-meson	Wormser 89 Roudeau 88 Aguliarbenit 87C Abe 86 Duffy 86 Benvenuti 85
⁴⁸ Ti $2e^- 2\bar{\nu}_e$	Barabash 89B	$e^+ \nu_e$ photino	Adachi 89B Takahashi 88	$\nu_e X$	$\mu^- X$	Mooney 89 Catanesi 88 Sviridov 88 Ginther 87 Catanesi 86 Tzeing 85
⁴⁸ Ti $2e^-$ majoron	Barabash 89B Caldwell 88 Barabash 87B	$\mu^+ \nu_\mu$ photino	Adachi 89B Takahashi 88	$\nu_\mu X$	$\bar{\nu}_e X$	Duffy 88
⁴⁸ Ti $2e^-$	Barabash 89B You 89 Barabash 87B	$q \bar{q}$ photino	Adachi 89B Takahashi 88	charm	$\bar{\nu}_\mu X$	Duffy 88
¹⁰⁰ Cd	Barabash 89B	$\tau^+ \nu_\tau$ photino	Adachi 89B Takahashi 88	$e^- \bar{\nu}_e$ photino		
¹¹⁴ Cd	Vesna 89	chargino⁻	Adachi 89 Adachi 89B Takahashi 88			
¹¹⁶ Cd	¹¹⁶ Sn $2e^- 2\bar{\nu}_e$					
¹¹⁶ Sn $2e^-$ majoron	Barabash 89B					
¹¹⁶ Sn $2e^-$	Barabash 89B Barabash 89B Danevich 89 Norman 87					
¹¹⁶ Sn ⁺ $2e^- 2\bar{\nu}_e$	Barabash 89C					
¹¹⁶ Sn ⁺ $2e^-$ majoron	Barabash 89C					
¹¹⁶ n ⁺ $2e^-$	Barabash 89C					

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

charmed-nucleus

charmed-nucleus	$\chi_{c0}(1P)$	$\chi_{c2}(1P)$	c
Lyukov 89	$J/\psi(1S) \gamma$	$p \bar{p} \pi^+ \pi^-$	hadron⁻ X
$\chi(\text{unspec})$	$K^*(892)^0 \bar{K}^*(892)^0$ Mir 89 Chen 89C	^{34}Cl Chen 89C	jet X Kesten 85
$J/\psi(1S) \gamma$	$K^*(892)^0 K^- \pi^+ +$ $K^*(892)^0 K^+ \pi^- +$ Chen 89C	$^{34}\text{S} e^+ \nu_e$ Hardy 89	$K^+ X$ Kroha 89B
$J/\psi(1S) X$	$K^+ K^- \phi$ Aihara 88B Chen 89C	$^{34}\text{Cl}^*$ Butsev 85	$K^- X$ Aihara 87C
$\chi_b(\text{unspec})$	$K^+ K^- \pi^+$ Chen 89C	^{35}Cl Altizoglow 85	$\ell^+ \text{hadron (hadrons)}$ Behrend 89J
Voloshin 87 Augustin 85E Bloom 85C	$K^+ K_S \pi^- + K_S^- K^- \pi^+$ Chen 89C Aihara 88B	^{36}Cl Avenier 85	$\mu^+ e^- X$ Haas 88
$\Upsilon(1S) \gamma$	$p \bar{p} \pi^+ \pi^-$ Chen 89C	^{54}Co $^{54}\text{Fe} e^+ \nu_e$ Hardy 89	$\mu^+ X$ Kroha 89B Marshall 89 Barlow 87
Skwarnicki 87	$\chi_{c1}(1P)$	^{56}Co Kozma 90 Kozma 88B Kozma 86	$\mu^- e^+ X$ Haas 88
$\chi_{b0}(1P)$	2γ Schindler 87 Gaiser 85	^{56}Co Kozma 88B Kozma 86	$\mu^- \mu^+ X$ Haas 88 Grab 87
$\chi_{b0}(2P)$	$2\pi^+ 2\pi^-$ Baglin 87	^{57}Co Kozma 90 Kozma 88B Kozma 86	p X Aihara 87C
$\chi_{b1}(1P)$	$3\pi^+ 3\pi^-$ Mir 89 Schindler 88	^{58}Co Kozma 88B Kozma 86	$\bar{p} X$ Aihara 87C
gluon 2gluino gluon 2longlived $q \bar{q}$ gluon	$J/\psi(1S) \gamma$ Mir 89 Schindler 88 Baglin 87B Jani 87 Baglin 86 Barate 86B Bauer 85	^{59}Co Kozma 88B Kozma 86 Michel 85	$\pi^+ X$ Aihara 87C
$\Upsilon(1S) \gamma$	$\chi_{c2}(1P)$	^{60}Co Kozma 88B	$\pi^- X$ Aihara 87C
Nernst 85	2γ Schindler 87 Gaiser 85	^{61}Co Arakelyan 90	\bar{c}
$\chi_{b1}(2P)$	$2K^+ 2K^-$ Chen 89C Aihara 88B	^{62}Co Arakelyan 90	charm X Bartel 87C
$\chi_{b2}(1P)$	2ϕ Chen 89C Aihara 88B	c	$e^- \bar{\nu}_e \bar{\nu}$ Pal 86
$\chi_{b2}(2P)$	$2\pi^+ 2\pi^-$ Chen 89C Mir 89 Aihara 88B Schindler 88	^{60}Co Abreu 90 Abreu 90C Akrawy 90D Decamp 90 Decamp 90C Elsen 90 Fransson 90 Abrams 89F Adachi 89E Albajar 89B Artuso 89B Botner 89 Eno 89B Eno 89C Ouldsaada 88B Bartel 87 Behrend 87C Behrends 87 Wu 87	$e^- X$ Kroha 89B Marshall 89
Gray 87 Schindler 87	$2\rho^0$ Chen 89C Aihara 88B	^{61}Co Arakelyan 90	jet X Kroha 89B
$\chi_c(3455)$	$3\pi^+ 3\pi^-$ Mir 89 Schindler 88	^{62}Co Arakelyan 90	$K^+ X$ Aihara 87C
$J/\psi(1S) \gamma$	$J/\psi(1S) \gamma$ Baglin 87B Jani 87 Baglin 86 Barate 86B Bauer 85	^{60}Co Abreu 90 Abreu 90C Akrawy 90D Decamp 90 Decamp 90C Elsen 90 Fransson 90 Abrams 89F Adachi 89E Albajar 89B Artuso 89B Botner 89 Eno 89B Eno 89C Ouldsaada 88B Bartel 87 Behrend 87C Behrends 87 Wu 87	$K^- X$ Aihara 87C
$\chi_c(\text{unspec})$	$K^*(892)^0 \bar{K}^*(892)^0$ Chen 89C	^{60}Co Abreu 90 Abreu 90C Akrawy 90D Decamp 90 Decamp 90C Elsen 90 Fransson 90 Abrams 89F Adachi 89E Albajar 89B Artuso 89B Botner 89 Eno 89B Eno 89C Ouldsaada 88B Bartel 87 Behrend 87C Behrends 87 Wu 87	$\ell^- \text{hadron (hadrons)}$ Behrend 89J
Danilov 88	$K^*(892)^0 K^- \pi^+ +$ $K^*(892)^0 K^+ \pi^-$ Chen 89C	^{61}Co Arakelyan 90	$\mu^- X$ Kroha 89B Marshall 89 Barlow 87
$\chi_{c0}(1P)$	$K^+ K^- \phi$ Aihara 88B	^{62}Co Arakelyan 90	p X Aihara 87C
Prokoshkin 87C Schindler 87 Gaiser 85	$K^+ K^- \pi^+$ Chen 89C	^{62}Co Arakelyan 90	$\bar{p} X$ Aihara 87C
2γ	$K^+ K_S \pi^- + K_S^- K^- \pi^+$ Chen 89C Aihara 88B	^{62}Co Arakelyan 90	$\pi^+ X$ Aihara 87C
$2K^+ 2K^-$	$J/\psi(1S) \gamma$ Baglin 87B Jani 87 Baglin 86 Barate 86B Bauer 85	^{62}Co Arakelyan 90	$\pi^- X$ Aihara 87C
2ϕ	$K^*(892)^0 \bar{K}^*(892)^0$ Chen 89C	^{62}Co Arakelyan 90	\bar{c}
$2\pi^+ 2\pi^-$	$K^*(892)^0 K^- \pi^+ +$ $K^*(892)^0 K^+ \pi^-$ Chen 89C	^{62}Co Arakelyan 90	2hadron (hadrons) Rowson 85
$2\rho^0$	$K^+ K^- \phi$ Aihara 88B	^{62}Co Arakelyan 90	charm X Bartel 87C
$3\pi^+ 3\pi^-$	$K^+ K^- \pi^+$ Chen 89C	^{62}Co Arakelyan 90	$e^+ \nu_e s$ Pal 86
	$K^+ K_S \pi^- + K_S^- K^- \pi^+$ Chen 89C Aihara 88B	^{62}Co Arakelyan 90	$e^+ X$ Kroha 89B Marshall 89
	$J/\psi(1S) \gamma$ Baglin 87B Jani 87 Baglin 86 Barate 86B Bauer 85	^{62}Co Arakelyan 90	$e^- e^+ X$ Haas 88 Grab 87
	$K^*(892)^0 \bar{K}^*(892)^0$ Chen 89C	^{62}Co Arakelyan 90	hadron X Marshall 89
	$K^*(892)^0 K^- \pi^+ +$ $K^*(892)^0 K^+ \pi^-$ Chen 89C	^{62}Co Arakelyan 90	hadron ⁺ X Kesten 85
	$K^+ K^- \phi$ Aihara 88B	^{62}Co Arakelyan 90	
	$K^+ K^- \pi^+$ Chen 89C	^{62}Co Arakelyan 90	
	$K^+ K_S \pi^- + K_S^- K^- \pi^+$ Chen 89C Aihara 88B	^{62}Co Arakelyan 90	

Cu

 D^+

Cu	$D^*(2010)^+$	$D^*(2010)^-$	$D^*(2010)^0$
Antipov 89 Antipov 89C Efendiev 89 Antipov 88 Antipov 88B Balats 87 Capraro 87 Carlsmith 87 Antipov 86C Carlsmith 86 Huston 86 Marx 86 Piragino 86B Zielinsky 86 Ablev 85 Antipov 85 Zajmidoroga 85	Marshall 85 Rosner 85E Yamamoto 85E $D^+ \gamma$ $D^+ \pi^0$ $D^0 \pi^+$	Aguilarbenit 88B Anjos 88B Bowcock 88 Thorndike 88 Aguilarbenit 87C Cumalat 87 Schindler 87 Wu 87 Abe 86 Adamovich 86B Aguilarbenit 86B Fitch 86 Bailey 85C Cassel 85 Csorna 85 Kesten 85 Marshall 85 Rosner 85E Yamamoto 85 Yamamoto 85E	Schindler 87 Abe 86 Aguilarbenit 86B $D^+ \pi^-$ $D^0 \gamma$ $D^0 \pi^0$
Cu^*	Apokin 86D		Schubert 89 Adler 88C Bortoletto 88 Asratyan 87B Asratyan 87C Low 87 Naroska 87 Bartel 85G
^{60}Cu	Arakelyan 90	$D^- \gamma$	Schubert 89 Adler 88C Bortoletto 88 Asratyan 87B Asratyan 87C Low 87 Naroska 87 Bartel 85G
^{61}Cu	Arakelyan 90 Kozma 88B	$D^- \pi^0$	
^{64}Cu	Hufner 85	$\bar{D}^0 \pi^-$	
^{65}Cu	Avignone 88	Albajar 90D Alexander 90 Braunschweig 90B	$D^*(2150)^0$ Schindler 87
$^{66}Cu^*$		Abe 89O Albrecht 89P Albrecht 89Q Averill 89	$D^*(2300)^0$ Schindler 87
$^{65}Cu \ 2\gamma$	Avignone 88	Bortoletto 89B Braunschweig 89G Harder 89 Mooney 89 Ouldsaada 89 Wagner 89B	$\bar{D}^*(2010)^0$
^{67}Cu	Butsev 85 Hufner 85 Wagner 85	Abachi 88 Abachi 86C Adler 88C Albrecht 85J Anjos 88 Anjos 88F Baringer 88 Barlag 88 Bortoletto 88 Danilov 88 Ouldsaada 88B Roudeau 88 Shipbaugh 88B Abachi 87C Albrecht 87B Albrecht 87F Albrecht 87O Albrecht 87P Anjos 87 Asratyan 87B Asratyan 87C Barlow 87 Bartel 87B Bartoletto 87 Ginther 87 Gittelman 87 Jones 87B Kolanoski 87 Naroska 87 Wagner 87	Marshall 89 Schubert 89 Aguilarbenit 88B Thorndike 88 Aguilarbenit 87C Schindler 87 Abe 86 Aguilarbenit 86B $D^- \pi^+$ $\bar{D}^0 \gamma$ $\bar{D}^0 \pi^0$
D		Anjos 88F Baringer 88 Barlag 88 Bortoletto 88 Danilov 88 Ouldsaada 88B Roudeau 88 Shipbaugh 88B Abachi 87C Albrecht 87B Albrecht 87F Albrecht 87O Albrecht 87P Anjos 87 Asratyan 87B Asratyan 87C Barlow 87 Bartel 87B Bartoletto 87 Ginther 87 Gittelman 87 Jones 87B Kolanoski 87 Naroska 87 Wagner 87	$\bar{D}^*(2150)^0$ Schindler 87
$\mu^+ X$	Bordalo 88	Abachi 86E Aihara 86E Albrecht 86B Althoff 86C Gladney 86B Albrecht 85 Albrecht 85N Chen 85 Yamamoto 85 Yamamoto 85B Yamamoto 85C Sliwa 83	Avery 90 Halling 89 Kreinick 89 Miller 89 Wormser 89 Aguilarbenit 88B Anjos 88B Bowcock 88 Thorndike 88 Aguilarbenit 87C Bebek 87B Cumalat 87 Schindler 87 Wu 87 Abe 86 Aguilarbenit 86B Augs 86 Fitch 86 Augustin 85E Bailey 85C Cassel 85 Csorna 85 Kesten 85
D(unspec)	Bailey 85C $D^*(2010)^+ \pi^-$ Albrecht 89V $D_s^+ \pi^-$ Albrecht 89	Albrecht 87C Albrecht 87F Albrecht 87O Albrecht 87P Anjos 87 Asratyan 87B Asratyan 87C Barlow 87 Bartel 87B Bartoletto 87 Ginther 87 Gittelman 87 Jones 87B Kolanoski 87 Naroska 87 Wagner 87 Abachi 86E Aihara 86E Albrecht 86B Althoff 86C Gladney 86B Albrecht 85 Albrecht 85N Chen 85 Yamamoto 85 Yamamoto 85B Yamamoto 85C Sliwa 83 Yamamoto 85	Adler 88C Bortoletto 88 Low 87 Naroska 87 Bartel 85G
$D^*(2010)$	Osterheld 86 Kiesling 85	Naroska 87 Wagner 87 Abachi 86E Aihara 86E Albrecht 86B Althoff 86C Gladney 86B Albrecht 85 Albrecht 85N Chen 85 Yamamoto 85 Yamamoto 85B Yamamoto 85C Sliwa 83 Yamamoto 85	Adler 88C Bortoletto 88 Low 87 Naroska 87 Bartel 85G
$D^*(2010)^+$	Avery 90 Albrecht 89C Bortoletto 89 Halling 89 Kreinick 89 Miller 89 Wormser 89 Aguilarbenit 88B Anjos 88B Bowcock 88 Thorndike 88 Aguilarbenit 87C Bebek 87B Cumalat 87 Schindler 87 Wu 87 Abe 86 Aguilarbenit 86B Augs 86 Fitch 86 Augustin 85E Bailey 85C Cassel 85 Csorna 85 Kesten 85	Ammosov 87F Anjos 87 Barlow 87 Bartel 87B Bartoletto 87 Ginther 87 Gittelman 87 Jones 87B Kolanoski 87 Naroska 87 Wagner 87 Aihara 86E Albrecht 86B Althoff 86C Albrecht 85 Albrecht 85N Chen 85 Christenson 85 Yamamoto 85B Yamamoto 85C Sliwa 83	$D^*(2150)^0$ Schindler 87
	$\bar{D}^0 \pi^+$	$D^*(2010)^0$	D^+
	$D^*(2010)^{\pm}$	Bortoletto 90 Marshall 89 Miller 89 Aguilarbenit 88B Thorndike 88 Aguilarbenit 87C Bebek 87B	Avery 90 Halling 89 Kreinick 89 Miller 89 Aguilarbenit 88 Anjos 88 Aoki 88 Grab 88 Roudeau 88 Thorndike 88 Aguilarbenit 87B Aguilarbenit 87C Aguilarbenit 87D Ammar 87 Abe 86 Adamovich 86B Adamovich 86E Baltusaitis 86D Ushida 86 Aguilarbenit 85D Aguilarbenit 85E Alevy 85 Bailey 85C
	$D^*(2010)^-$		

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

D^+

D_S^{*+}

<p>D^+</p> <p>$\pi^+ \pi^0$ Schindler 87 Baltrusaitis 85B Coward 85 Schindler 85</p> <p>$\pi^- 2e^+$ Weir 89</p> <p>$\pi^- 2\mu^+$ Weir 89</p> <p>$\pi^- \mu^+ e^+$ Weir 89</p> <p>$\rho \pi^+$ Anjos 88D</p> <hr/> <p>D^{\pm}</p> <p>Marshall 89 Butler 86 Bailey 85C</p> <hr/> <p>D^-</p> <p>Adler 89E Albrecht 89N Browder 89 Danilov 89 Dejongh 89 Halling 89 Schubert 89 Aguliarbenit 88 Aleev 88 Aoki 88 Danilov 88 Grab 88 Lzen 88 Thornidike 88 Adler 87 Aguliarbenit 87B Aguliarbenit 87C Aguliarbenit 87D Ammar 87 Aoki 87 Barlag 87 Forino 87 Schindler 87 Abe 86 Adamovich 86B Adamovich 86E Baltrusaitis 86D Ushida 86 Aguliarbenit 85D Aguliarbenit 85E Bailey 85C Ajinenko 84E</p> <p>$2\pi^+ 3\pi^-$ Anjos 88D</p> <p>3charged (neutrals) Ammar 88B Aguliarbenit 86 Aziz 85</p> <p>3charged neutral (neutrals) Aguliarbenit 88B Aguliarbenit 87E</p> <p>5charged (neutrals) Ammar 88B Aguliarbenit 86 Aguliarbenit 86D</p> <p>5charged neutral (neutrals) Aguliarbenit 88B Aguliarbenit 87E</p> <p>charged neutral (neutrals) Aguliarbenit 88B Ammar 88B Aguliarbenit 87E</p> <p>e^- 2charged (neutrals) Aguliarbenit 86</p> <p>e^- 4charged (neutrals) Aguliarbenit 86</p> <p>$e^- X$ Aguliarbenit 88B Bowcock 88 Aguliarbenit 87E Baltrusaitis 85D</p>	<p>D^-</p> <p>$\eta' \pi^-$ Wormser 89</p> <p>$K^*(892)^0 e^- \bar{\nu}_e$ Anjos 88E Palka 87B Coward 85</p> <p>$K^*(892)^0 e^-$ Palka 87</p> <p>$K^*(892)^0 K^-$ Adler 88F Anjos 88G Barlag 88C Brient 87 Baltrusaitis 85B Coward 85</p> <p>$K^*(892)^0 \pi^+ 2\pi^-$ Barlag 88C</p> <p>$K^*(892)^0 \pi^-$ Coward 85 Schindler 85</p> <p>$K^*(892)^0 \rho^-$ Schindler 85</p> <p>$\bar{K}^*(892)^0 K^0 \pi^-$ Schindler 85</p> <p>$K^+ 2e^-$ Weir 89</p> <p>$K^+ 2\mu^-$ Weir 89</p> <p>$K^+ 2\pi^-$ Albrecht 89Q Averill 89 Harder 89 Abachi 88 Adler 88 Adler 88C Adler 88F Albrecht 88J Albrecht 88M Anjos 88C Anjos 88D Anjos 88F Barlag 88 Barlag 88C Barlag 88D Bortoletto 88 Anjos 87 Bartoletto 87 Brient 87 Csorna 87B Gittelman 87 Raab 87 Stockdale 87 Wasserbaech 87 Baltrusaitis 86E Schindler 86 Bailey 85 Baltrusaitis 85B Baltrusaitis 85D Derrick 85B Schindler 85</p> <p>$K^+ 2\pi^0 2\pi^-$ Aguliarbenit 87F</p> <p>$K^+ K^- \pi^+ 2\pi^-$ Anjos 88G</p> <p>$K^+ K^- \pi^-$ Adler 88 Adler 88F Anjos 88G Stockdale 87 Wasserbaech 87 Schindler 86 Baltrusaitis 85B Coward 85 Schindler 84</p> <p>$K^+ \mu^- e^-$ Weir 89</p> <p>$K^+ \pi^+ 3\pi^-$ Barlag 88C</p> <p>$K^+ \pi^- e^- \bar{\nu}_e$ Aguliarbenit 87F Coward 85</p>	<p>D^-</p> <p>$K^+ \pi^0 2\pi^-$ Adler 88 Aguliarbenit 87F Stockdale 87 Wasserbaech 87 Schindler 86 Schindler 85</p> <p>$K^+ \pi^0 \pi^- e^- \bar{\nu}_e$ Aguliarbenit 87F</p> <p>$K^+ X$ Aguliarbenit 88B Aguliarbenit 87E Aguliarbenit 86 Georgiopoulos 84</p> <p>$K^- e^- e^+$ Weir 89</p> <p>$K^- \mu^+ e^-$ Weir 89</p> <p>$K^- \mu^- e^+$ Weir 89</p> <p>$K^- \mu^- \mu^+$ Weir 89</p> <p>$K^- X$ Aguliarbenit 87E</p> <p>$K^0 e^- \bar{\nu}_e$ Coward 85</p> <p>$K^0 K^-$ Adler 88 Adler 88F Brient 87 Stockdale 87 Wasserbaech 87 Schindler 86 Baltrusaitis 85B Coward 85 Schindler 85</p> <p>$K^0 \pi^+ 2\pi^-$ Adler 88 Adler 88F Aguliarbenit 87F Brient 87 Stockdale 87 Wasserbaech 87 Schindler 86 Baltrusaitis 85D Schindler 85</p> <p>$K^0 \pi^+ \pi^- e^- \bar{\nu}_e$ Aguliarbenit 87F</p> <p>$K^0 \pi^+ \pi^0 2\pi^-$ Aguliarbenit 87F</p> <p>$K^0 \pi^-$ Adler 88 Adler 88F Brient 87 Stockdale 87 Wasserbaech 87 Schindler 86 Baltrusaitis 85B Schindler 85</p> <p>$K^0 \pi^0 \pi^-$ Adler 88 Adler 88F Brient 87 Stockdale 87 Wasserbaech 87 Schindler 86 Baltrusaitis 85B Schindler 85</p> <p>$K^0 \rho^-$ Coward 85</p> <p>$K_S \pi^+ 2\pi^-$ Albrecht 88M Aleev 85</p> <p>$K_S \pi^-$ Albrecht 88M Baltrusaitis 86E</p> <p>$K_S \pi^0 \pi^-$ Baltrusaitis 86E</p> <p>$\mu^- X$ Albanese 85 Benvenuti 85 Brient 87</p> <p>nonres $< K^+ K^- > \pi^-$ Brient 87</p>	<p>D^-</p> <p>$\phi \pi^+ 2\pi^-$ Anjos 88G</p> <p>$\phi \pi^-$ Adler 88F Anjos 88C Barlag 88C Brient 87 Baltrusaitis 85B Coward 85 Schindler 85 Georgiopoulos 84</p> <p>$\pi^+ 2e^-$ Weir 89</p> <p>$\pi^+ 2\mu^-$ Weir 89</p> <p>$\pi^+ 2\pi^-$ Adler 88F Anjos 88D Brient 87 Baltrusaitis 85B Coward 85 Schindler 85</p> <p>$\pi^+ \mu^- e^-$ Weir 89</p> <p>$\pi^+ \pi^- e^- \bar{\nu}_e$ Aguliarbenit 87F</p> <p>$\pi^- e^- e^+$ Weir 89 Haas 88</p> <p>$\pi^- \mu^+ e^-$ Weir 89 Haas 88</p> <p>$\pi^- \mu^- e^+$ Weir 89</p> <p>$\pi^- \mu^- \mu^+$ Weir 89 Haas 88</p> <p>$\pi^0 \pi^-$ Baltrusaitis 85B Coward 85 Schindler 85</p> <p>$\rho \pi^-$ Anjos 88D</p> <hr/> <p>$D_S(\text{unspec})^+$</p> <p>$D^*(2010)^+ K_S$ Avery 90</p> <hr/> <p>D_S^{\pm}</p> <p>$D_S^{\pm} \gamma$ Adler 89E Albrecht 87N Toki 89B</p> <hr/> <p>$D_S^{\pm}(2547)^+$</p> <p>$D^*(2010)^+ K^0$ Schindler 87 Ammosov 86</p> <p>$D^*(2010)^+ K^+$ Asratyan 87C</p> <p>$D^*(2010)^0 K^+$ Asratyan 87C</p> <hr/> <p>$D_S^{\pm}(2547)^-$</p> <p>$D_S^{*-} \gamma$ Schindler 87 Ammosov 86</p> <p>Asratyan 87C</p> <hr/> <p>$D_S^{\pm}(2790)^+$</p> <p>$D^*(2010)^0 K^+$ Batusov 88C</p> <hr/> <p>D_S^{*+}</p> <p>$D_S^{*+} \gamma$ Schindler 87 Wasserbaech 87 Schindler 86 Toki 86</p> <p>Bai 90</p>
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Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

D_S^{*+}

D_S^{*+}	Adler 89B Alder 89 Browder 89 Albrecht 87N Blaylock 87 Naroska 87 Ammosov 86 Albrecht 85B Bartel 85G	D_S^+	Browder 89 Schindler 89 Toki 89B Anjos 88D $K^*(892)^+ \bar{K}^*(892)^0$ Bai 90 Barlag 90C Adler 89E Alder 89 Browder 89 Schindler 89 Toki 89B Barlag 88C $K^*(892)^+ K^0$ $K^*(892)^+ \bar{K}^0$ Schindler 89 Chen 89B Miller 89 $K^*(892)^0 \rho^+$ Barlag 90C $\bar{K}^*(892)^0 K^+$ Alvarez 90C Bai 90 Barlag 90C Adler 89B Adler 89E Alder 89 Browder 89 Chen 89B Miller 89 Pitman 89 Schindler 89 Toki 89B Anjos 88C Anjos 88G Barlag 88C Schindler 88 Anjos 87C Luth 87 Raab 87 Schindler 87 Toki 86 Albrecht 85M $K^+ K^- 2\pi^+ \pi^-$ Barlag 90C Schindler 89 Anjos 88C Barlag 88C $K^+ K^- \pi^+ \pi^0$ Anjos 89B $K^+ K^- \pi^+$ Barlag 90B Barlag 90C Schindler 89 Albrow 88 Anjos 88G Barlag 88 Barlag 88D Blaylock 87 Schindler 87 Aguliarbenit 85C $K^+ \bar{K}^0 \pi^+$ Barlag 90C Bai 90 Adler 89B Adler 89E Alder 89 Browder 89 Chen 89B Miller 89 Schindler 89 Toki 89B Schindler 88 Schindler 87 $K^+ K_S \pi^+$ Animosov 86 $K^+ K_S \pi^0$ Ammosov 86 $K^+ K_S$ Ammosov 86 Pitman 89	D_S^+	Ammosov 86 Toki 86 $K^+ \pi^+ \pi^-$ Barlag 90C $K^+ X$ Aguliarbenit 86D $K^- 2\pi^+$ Albrecht 89 $K^0 \pi^+$ Adler 89B $\bar{K}^0 \pi^+$ Schindler 89 $K_S K^- 2\pi^+$ Ammosov 86 $\omega \pi^+$ Anjos 89B Schindler 89 $\phi 2\pi^+ \pi^-$ Alvarez 90C Bai 90 Barlag 90C Adler 89E Alder 89 Browder 89 Schindler 89 Toki 89B Anjos 88G Barlag 88C Schindler 87 Ammosov 86 Albrecht 85D $\phi e^+ \nu_e$ Anjos 90B $\phi \pi^+ \pi^0$ Alvarez 90C Bai 90 Adler 89E Alder 89 Anjos 89B Browder 89 Schindler 89 Toki 89B Wormser 89 Wormser 89B Ammosov 86 $\phi \pi^+$ Albrecht 90 Alvarez 90 Alvarez 90C Anjos 90B Bai 90 Barlag 90C Adler 89E Alder 89 Browder 89 Chen 89B Pitman 89 Schindler 89 Toki 89B Wasserbaech 89 Wormser 89 Wormser 89B Albrecht 88J Albrow 88 Anjos 88C Anjos 88D Anjos 88G Barlag 88C Schindler 88 Shipbaugh 88B Albrecht 87N Albrecht 87R Anjos 87C Barlow 87 Blaylock 87 Braunschweig 87B Csorna 87B Ginther 87 Luth 87 Naroska 87 Raab 87 Schindler 87 Shipbaugh 87	D_S^+	Wasserbaech 87 Ammosov 86 Haas 86 Jung 86 Schindler 86 Toki 86 Aguliarbenit 85C Albrecht 85B Albrecht 85D Albrecht 85M Bartel 85G Derrick 85C Georgiopoulos 84 $\phi \rho^+$ Barlag 90C $\rho^0 \pi^+$ Schindler 89 Albrecht 87R
D_S^-	Browder 89 Pitman 89 Schindler 87 Wasserbaech 87 Schindler 86 Toki 86	D_S^+	Adler 89E Toki 89B Schindler 87 Talebzadeh 87	D_S^+	Adler 89E Toki 89B Schindler 87 Talebzadeh 87		
$D_S^- \gamma$	Bai 90 Adler 89B Alder 89 Schindler 88 Albrecht 87D Albrecht 87N Asratyan 87C Blaylock 87 Naroska 87 Ammosov 86 Asratyan 86 Asratyan 86B Albrecht 85B Bartel 85G Stockdale 87	D_S^+	Adler 89E Toki 89B Schindler 87 Talebzadeh 87	D_S^+	Adler 89E Toki 89B Schindler 87 Talebzadeh 87		
X		D_S^+	Becker 87 Wormser 87	D_S^+	Becker 87 Wormser 87		
D_S^-	Bortoletto 90 Averill 89 Halling 89 Schubert 89 Aguliarbenit 88B Bortoletto 88 Danilov 88 Roudaut 88 Adamovich 86B Albrecht 86F Ushida 86 Voyvodic 85 Ajinenko 84B	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$2\pi^+ \pi^-$	Barlag 90C Schindler 89 Anjos 88D Aguliarbenit 85C	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$2\pi^+ \pi^0 \pi^-$	Anjos 89B Smart 86	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$3\pi^+ 2\pi^-$	Barlag 90C Schindler 89 Anjos 88D	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$e^+ X$	Bai 90 Pitman 89 Schindler 89	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$\eta \pi^+$	Anjos 89B Browder 89 Schindler 89 Wormser 88B Stockdale 87	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$\eta' \pi^+$	Albrecht 90 Browder 89 Schindler 89 Wormser 89 Wormser 89B Wormser 88B	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		
$f_0(975) \pi^+$	Bai 90 Adler 89E Alder 89	D_S^+	Wormser 87	D_S^-	Adler 89E Averill 89 Browder 89 Halling 89 Kreinick 89 Miller 89 Toki 89B Aguliarbenit 88B Bortoletto 88 Danilov 88 Schindler 87 Ushida 86 $2\pi^+ 3\pi^-$ Anjos 88D $D^*(2010)^- K^0$ Albrecht 89P $e^- X$ Schindler 88 $\eta \pi^-$ Wormser 88B $\eta' \pi^-$ Wormser 89 Wormser 88B $f_0(975) \pi^-$ Bai 90 Alder 89 Anjos 88D $K^*(892)^- K^0$ Chen 89B $K^*(892)^- K_S$ Bortoletto 90 $K^*(892)^0 K^*(892)^-$ Bai 90 Alder 89 Barlag 88C $K^*(892)^0 K^-$ Bai 90 Bortoletto 90 Alder 89B Alder 89 Chen 89B Anjos 88C Anjos 88G Barlag 88C Raab 87 Toki 86 $K^+ K^- \pi^+$ $2\pi^-$ Anjos 88C Barlag 88C		

D_S^-	D_S^-	D^0	D^0
<p>$K^+ K^- \pi^-$ Anjos 88G Barlag 88 Barlag 88D Blaylock 87 Aguilarbenit 85C</p> <p>$K^+ K^- \pi^0 \pi^-$ Anjos 89B Schindler 89</p> <p>$K^+ K_S 2\pi$ Asratyan 87C Ammosov 86</p> <p>$K^- X$ Aguilarbenit 86D</p> <p>$K^0 K^-$ Bai 90 Adler 89B Alder 89 Chen 89B</p> <p>$\bar{K}^0 \pi^-$ Adler 89B</p> <p>$K_S K^- \pi^+ \pi^-$ Asratyan 87C Ammosov 86</p> <p>$K_S K^- \pi^0$ Asratyan 87C Ammosov 86</p> <p>$K_S K^-$ Bortoletto 90 Asratyan 87C Ammosov 86 Toki 86</p> <p>$\phi \pi^+ 2\pi^-$ Bai 90 Alder 89 Anjos 88G Barlag 88C Asratyan 87C Ammosov 86 Albrecht 85D</p> <p>$\phi \pi^- X$ Asratyan 86 Asratyan 86B</p> <p>$\phi \pi^-$ Bai 90 Bortoletto 90 Alder 89 Chen 89B Wasserbaech 89 Wormser 89 Albrecht 88J Albrow 88 Anjos 88C Anjos 88G Barlag 88C Schmitz 88 Shipbaugh 88B Albrecht 87D Albrecht 87N Albrecht 87R Asratyan 87 Asratyan 87C Barlow 87 Blaylock 87 Braunschweig 87B Csorna 87B Ginther 87 Naroska 87 Raab 87 Shipbaugh 87 Wasserbaech 87 Ammosov 86 Haas 86 Jung 86 Schindler 86 Toki 86 Aguilarbenit 85C Albrecht 85B Bartel 85C Derrick 85C Georgiopoulos 84</p>	<p>$\phi \pi^0 \pi^-$ Bai 90 Alder 89 Anjos 89B Wormser 89 Asratyan 87C Ammosov 86</p> <p>$\pi^+ 2\pi^-$ Anjos 88D Aguilarbenit 85C</p> <p>$\pi^+ \pi^0 2\pi^-$ Anjos 89B</p> <p>$\rho^0 \pi^-$ Albrecht 87R</p> <p>D^0 Albrecht 89C Halling 89 Kreinick 89 Marshall 89 Schubert 89 Aguilarbenit 86 Aoki 88 Baringer 88 Ouldsaada 88B Thorndike 88 Abachi 87C Aguilarbenit 87B Aguilarbenit 87C Aguilarbenit 87D Amendolia 87 Ammar 87 Hofmann 87B Kolanc ski 87 Low 87 Abe 86 Adamovich 86B Adamovich 86E Aguilarbenit 86B Albrecht 86F Aubert 86C Butler 86 Fitch 86 Heltsley 86 Ushida 86B Aguilarbenit 85D Aguilarbenit 85E Albanese 85 Albrecht 85N Alev 85 Bailey 85C Cassel 85 Chen 85 Csorna 85 Kesten 85 Voyvodic 85 Ajinenko 84B</p> <p>2charged (neutrals) Ammar 88B Aguilarbenit 86D</p> <p>2charged neutral (neutrals) Aguilarbenit 88B</p> <p>2K_S Alexander 89 Baltrusaitis 86D</p> <p>$2\pi^+ 2\pi^-$ Barlag 90C Barlag 89B Barlag 88C Aguilarbenit 87F Coward 85 Schindler 85</p> <p>$2\pi^+ \pi^0 2\pi^-$ Barlag 90C Barlag 89B</p> <p>3K_S Albrecht 89R</p> <p>$3\pi^+ 3\pi^-$ Barlag 90C Barlag 89B</p> <p>4charged (neutrals) Ammar 88B Aguilarbenit 86D</p>	<p>Aguilarbenit 85 4charged neutral (neutrals) Aguilarbenit 88B</p> <p>6charged (neutrals) Ammar 88B Aguilarbenit 86D</p> <p>6charged neutral (neutrals) Aguilarbenit 88B</p> <p>\bar{D}^0 Anjos 88 Purohit 88 Albrecht 87F Louis 86 Benvenuti 85 Yamamoto 85 Yamamoto 85C</p> <p>$e^+ X$ Aguilarbenit 88B Bowcock 88 Aguilarbenit 87E Aguilarbenit 86 Baltrusaitis 85D</p> <p>$e^- e^+$ Adler 88B Albrecht 88F Grab 88 Haas 88 Anjos 87D Grab 87</p> <p>$e^- X$ Aguilarbenit 88B</p> <p>$K^*(892)^- e^+ \nu_e$ Schindler 86 Coward 85</p> <p>$K^*(892)^- K^+$ Barlag 88C Coward 85 Schindler 85</p> <p>$K^*(892)^- \pi^+$ Adler 87 Brient 87 Schindler 87 Coward 85 Schindler 85</p> <p>$K^*(892)^0 \bar{K}^*(892)^0$ Barlag 90C</p> <p>$K^*(892)^0 \pi^0$ Brient 87</p> <p>$K^*(892)^0 \rho^0$ Adler 89D</p> <p>$\bar{K}^*(892)^0 2\pi^0$ Batusov 88C</p> <p>$\bar{K}^*(892)^0 \eta$ Anjos 90 Miller 89 Albrecht 88S</p> <p>$\bar{K}^*(892)^0 K^0$ Coward 85</p> <p>$\bar{K}^*(892)^0 \omega$ Anjos 90</p> <p>$\bar{K}^*(892)^0 \pi^+ \pi^-$ Adler 89E Browder 89 Dejongh 89</p> <p>$\bar{K}^*(892)^0 \pi^0$ Adler 87 Schindler 87 Coward 85 Schindler 85</p> <p>$\bar{K}^*(892)^0 \rho^0$ Adler 89E Browder 89 Dejongh 89 Schindler 85</p> <p>$K^+ K^- \pi^+ \pi^-$ Barlag 90C Barlag 88C</p> <p>$K^+ K^- \pi^+ \pi^0 \pi^-$ Barlag 90C</p> <p>$K^+ K^-$ Barlag 90C Albrecht 89R</p>	<p>Barlag 89B Miller 89 Adler 88F Barlag 88C Brient 87 Baltrusaitis 85B Coward 85 Schindler 85 Yamamoto 85C</p> <p>$K^+ K^0 K^- \pi^0$ Barlag 89B</p> <p>$K^+ K^0 K^-$ Barlag 89B</p> <p>$K^+ \bar{K}^0 K^- \pi^0$ Barlag 90C</p> <p>$K^+ \bar{K}^0 K^-$ Barlag 90C Adler 88F Barlag 88C Schindler 87 Bebek 86</p> <p>$K^+ \bar{K}^0 \pi^-$ Barlag 88C</p> <p>$K^+ K_S K^-$ Baltrusaitis 86D</p> <p>$K^+ \pi^-$ Abachi 86B</p> <p>$K^+ X$ Barlag 90C Aguilarbenit 87E</p> <p>$K^- 2\pi^+ \pi^-$ Alexander 90 Barlag 90B Barlag 90C Bortoletto 90 Braunschweig 90B Abachi 89C Adler 89D Adler 89E Albrecht 89V Albrecht 89X Barlag 89B Bortoletto 89B Braunschweig 89G Browder 89 Dejongh 89 Miller 89 Ouldsaada 89 Adler 88F Albrecht 88J Albrecht 88M Anjos 88 Anjos 88C Barlag 88 Barlag 88C Barlag 88D Danilov 88 Izen 88 Schindler 88 Aguilarbenit 87F Albrecht 87B Albrecht 87P Anjos 87 Asratyan 87B Asratyan 87C Barlag 87 Barlow 87 Bebek 87B Brient 87 Luth 87 Naroska 87 Raab 87 Schindler 87 Wagner 87 Aihara 86E Althoff 86C Anjos 86 Baltrusaitis 86E Aguilarbenit 85 Albrecht 85 Baltrusaitis 85D Coward 85 Schindler 85</p>

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

D^0	D^0	D^0	D^0
$K^- 2\pi^+ \pi^0 \pi^-$ Anjos 90 Barlag 90C Barlag 89B Miller 89	$K^- 2\pi^0 e^+ \nu_e$ Aguilarenbit 87F	$K^- a_1(1260)^+$ Adler 89D Adler 89E Browder 89 Dejongh 89	$K^- \text{charged}^+$ Yamamoto 85
$K^- e^+ \nu_e$ Adler 89 Wasserbaech 89 Anjos 88B Izen 88 Aguilarbenit 87F Schindler 87 Coward 85 Schindler 85	$K^- \mu^+ \nu_\mu$ Izen 88 Schindler 87	$K^- \pi^+ (\text{neutrals})$ Luth 87	$K^- \pi^+ 2\pi^0$ Barlag 90C Barlag 89B Adler 88F Aguilarbenit 87F Brient 87
$K^- \pi^+ 3\pi^0$ Aguilarbenit 87F	$K^- \pi^+ \pi^0$ Alvarez 90C Barlag 90C Braunschweig 90B Abachi 89C Barlag 89B Braunschweig 89G Miller 89 OudaSaada 89 Wormser 89B Adler 88F Schindler 88 Adler 87 Aguilarbenit 87F Albrecht 87B Albrecht 87P Asratyan 87B Asratyan 87C Barlow 87 Bartel 87B Brient 87 Schindler 87 Wagner 87 Aihara 86E Althoff 86C Anjos 86 Baltrusaitis 86E Gladney 86B Albrecht 85 Bailey 85 Baltrusaitis 85B Baltrusaitis 85D Bartel 85G Coward 85 Derrick 85B Schindler 85 Yamamoto 85 Gladney 86B Smart 86 Baltrusaitis 85D Coward 85 Schindler 85 Yamamoto 85C Sliwa 83	$K^- \pi^0 e^+ \nu_e$ Izen 88 Aguilarbenit 87F Schindler 87 Schindler 86 Coward 85 Schindler 85	$K^- \pi$ Barlag 89B
$K^- \pi^+$ Albajar 90D Alexander 90 Alvarez 90C Barlag 90B Barlag 90C Bortoletto 90 Braunschweig 90B Abachi 89C Abe 89C Albrecht 89V Albrecht 89X Averill 89 Bortoletto 89B	$K^- \pi^0 e^+ \nu_e$ Braunschweig 89G Harder 89 Miller 89 Mooney 89 Wormser 89 Wormser 89B Abachi 88 Abachi 88C Adler 88C Adler 88F Albrecht 88J Albrecht 88M Albrecht 88S Anjos 88 Anjos 88C Anjos 88F Barlag 88C Barlag 88D Bortoletto 88 Danilov 88 Izen 88 Roudeau 88 Schindler 88 Shipbaugh 88B Aguilarbenit 87F Albrecht 87B Albrecht 87O Albrecht 87P Anjos 87 Anjos 87D Asratyan 87B Asratyan 87C Barlag 87 Barlow 87 Bortoletto 87 Batusov 87 Bebek 87B Brient 87 Csorna 87B Ginther 87 Gittelman 87 Jones 87B Luth 87 Naroska 87 Raab 87 Schindler 87 Wagner 87 Abachi 86B Aihara 86E Albrecht 86B Althoff 86C Anjos 86 Baltrusaitis 86E Gladney 86B Albrecht 85 Bailey 85 Baltrusaitis 85B Baltrusaitis 85D Bartel 85G Coward 85 Derrick 85B Schindler 85 Yamamoto 85 Yamamoto 85C Sliwa 83	$K^- \pi^0$ Braunschweig 89G Harder 89 Miller 89 Mooney 89 Wormser 89 Wormser 89B Abachi 88 Abachi 88C Adler 88C Adler 88F Albrecht 88J Albrecht 88M Albrecht 88S Anjos 88 Anjos 88C Anjos 88F Barlag 88C Barlag 88D Bortoletto 88 Danilov 88 Izen 88 Roudeau 88 Schindler 88 Shipbaugh 88B Aguilarbenit 87F Albrecht 87B Albrecht 87O Albrecht 87P Anjos 87 Anjos 87D Asratyan 87B Asratyan 87C Barlag 87 Barlow 87 Bortoletto 87 Batusov 87 Bebek 87B Brient 87 Csorna 87B Ginther 87 Gittelman 87 Jones 87B Luth 87 Naroska 87 Raab 87 Schindler 87 Wagner 87 Abachi 86B Aihara 86E Albrecht 86B Althoff 86C Anjos 86 Baltrusaitis 86E Gladney 86B Albrecht 85 Bailey 85 Baltrusaitis 85B Baltrusaitis 85D Bartel 85G Coward 85 Derrick 85B Schindler 85 Yamamoto 85 Yamamoto 85C Sliwa 83	$K^- X$ Dejongh 89 Barlag 90C Aguilarbenit 88B Aguilarbenit 87E Aguilarbenit 86
$K^0 2\pi^+ 2\pi^-$ Barlag 89B	$K^0 3\pi^+ 3\pi^-$ Barlag 89B	$K^0 e^- e^+$ Grab 88	$K^0 K^- \pi^+$ Coward 85 Schindler 85
$K^0 \bar{K}^0$ Albrecht 89R Alexander 89 Adler 88F Brient 87 Cotescu 87 Cumalat 87 Cumalat 87B Coward 85 Schindler 85	$K^0 \phi$ Barlag 89B Bebek 86	$K^0 \pi^+ \pi^-$ Bortoletto 90 Barlag 89B Smart 86	$K^0 \pi^+ \pi^0 \pi^-$ Barlag 89B
$K^0 X + \bar{K}^0 X$ Barlag 90C	$K_1(1270)^- \pi^+$ Adler 89D Adler 89E Browder 89 Dejongh 89	$K_1(1400)^- \pi^+$ Adler 89E Browder 89 Dejongh 89	$K^0 X + \bar{K}^0 X$ Barlag 90C
$\bar{K}^0 2\pi^+ 2\pi^-$ Anjos 90 Barlag 90C	$\bar{K}^0 e^- e^+$ Adler 89C	$\bar{K}^0 \eta$ Albrecht 88S Schindler 87 Coward 85 Schindler 85	$\bar{K}^0 \omega$ Miller 89 Albrecht 88S Schindler 87 Coward 85 Schindler 85
$\bar{K}^0 \pi^+ 2\pi^0 \pi^-$ Aguilarbenit 87F	$\bar{K}^0 \pi^+ e^- \nu_e$ Izen 88	$\bar{K}^0 \pi^+ \mu^- \nu_\mu$ Izen 88	$\bar{K}^0 \pi^+ \pi^- X$ Batusov 87
$\bar{K}^0 \pi^+ \pi^-$ Barlag 90C Braunschweig 90B Miller 89 Schindler 88 Adler 87	$\bar{K}^0 \rho^0$ Adler 89E Browder 89	$\bar{K}^0 \rho^0$ Adler 87 Brient 87 Coward 85	$\bar{K}^0 \rho^0$ Adler 87 Brient 87 Coward 85
$K_S K^- \pi^+$ Albrecht 89R	$K_S \phi$ Baltrusaitis 86D Albrecht 85G	$K_S \pi^+ \pi^-$ Albrecht 89V Albrecht 88M Danilov 88 Albrecht 87B Albrecht 87P Asratyan 87B Asratyan 87C Albrecht 85G	$\mu^+ e^-$ Adler 88F Albrecht 88F Grab 88 Haas 88 Anjos 87D Becker 87B Grab 87 Palka 87 Riles 87 Stockhausen 87 Wasserbaech 87
$\mu^+ X$ Benvenuti 85	$\mu^- e^+ + \mu^+ e^-$ Brient 87	$\mu^- e^+$ Adler 88F Albrecht 88F Haas 88 Anjos 87D Becker 87B Grab 87 Palka 87 Riles 87 Stockhausen 87 Wasserbaech 87	$\mu^- \mu^+$ Albrecht 88F Haas 88 Anjos 87D Grab 87 Louis 86 Auhert 85
$\text{mult}[\text{charged}] (\text{neutrals})$ Wagner 89B	$\text{nonres} < K^+ K^- > \bar{K}^0$ Brient 87	$\text{nonres} < K^+ K^- > \pi^+ \pi^-$ Barlag 89B	

D^0

\bar{D}^0

D^0	$\bar{D}_2(2460)^0$	\bar{D}^0	\bar{D}^0
$\phi \pi^+ \pi^-$	Anjos 88F	Benvenuti 85 Yamamoto 85C	Barlag 88D Danilov 88 Aguilardenit 87F Albrecht 87B Albrecht 87F Anjos 87 Barlow 87 Brient 87 Naroska 87 Raab 87 Wagner 87 Aihara 86E Althoff 86C Baltrusaitis 86E Schindler 86 Aguilarbenit 85 Albrecht 85 Baltrusaitis 85D Coward 85 Schindler 85
Barlag 90C Barlag 89B Miller 89 Barlag 88C	\bar{D}	$e^- e^+$	
$\phi \rho^0$	$\mu^+ X$	Adler 88B Albrecht 88F	
Barlag 90C	$\bar{D}(\text{un spec})$	$e^- X$	
$\pi^+ \pi^-$	Bordalo 88	Bowcock 88 Aguilarbenit 87E Aguilarbenit 86 Baltrusaitis 85D Coward 85	
Barlag 90C Albrecht 89R Barlag 89B Miller 89 Adler 88F Aguilarbenit 87F Brient 87 Jones 87B Baltrusaitis 85B Coward 85 Schindler 85	\bar{D}^0	$K^*(892)^+ e^- \bar{\nu}_e$ Coward 85	
$\pi^+ \pi^0 \pi^-$	Adler 89D Adler 89E Albrecht 89C Alexander 89 Browder 89 Dejongh 89 Halling 89 Marshall 89 Schubert 89 Aguilarbenit 88 Aleev 88 Aoki 88 Baringer 88 Grab 88 Ouldsaada 88B Purohit 88 Thorndike 88 Abachi 87C Adler 87 Aguilarbenit 87B Aguilarbenit 87C Aguilarbenit 87D Amenolia 87 Aminar 87 Barlag 87 Becker 87B Forino 87 Gittelman 87 Grab 87 Kolanoski 87 Low 87 Palka 87 Schindler 87 Stockhausen 87 Wasserbaech 87 Abe 86 Adamovich 86B Adamovich 86E Aguilarbenit 86B Aguilarbenit 36D Butler 86 Fitch 86 Ushida 86B Aguilarbenit 85D Aguilarbenit 85E Albrecht 85N Bailey 85C Chen 85 Csorna 85 Kesten 85 Ajinenko 84B Ammar 88B Aguilarbenit 88B	$K^*(892)^+ K^-$ Barlag 88C Coward 85 Schindler 85	
Barlag 90C Barlag 89B Coward 85 Schindler 85	Aleev 88 Aoki 88 Baringer 88 Grab 88 Ouldsaada 88B Purohit 88 Thorndike 88 Abachi 87C Adler 87 Aguilarbenit 87B Aguilarbenit 87C Aguilarbenit 87D Amenolia 87 Aminar 87 Barlag 87 Becker 87B Forino 87 Gittelman 87 Grab 87 Kolanoski 87 Low 87 Palka 87 Schindler 87 Stockhausen 87 Wasserbaech 87 Abe 86 Adamovich 86B Adamovich 86E Aguilarbenit 86B Aguilarbenit 36D Butler 86 Fitch 86 Ushida 86B Aguilarbenit 85D Aguilarbenit 85E Albrecht 85N Bailey 85C Chen 85 Csorna 85 Kesten 85 Ajinenko 84B Ammar 88B Aguilarbenit 88B	$K^*(892)^+ \pi^-$ Brient 87 Aleev 85 Coward 85 Schindler 85	
$\pi^- e^+ \nu_e$	Adler 89 Wasserbaech 89 Izen 88 Aguilarbenit 87F Schindler 87	$K^*(892)^0 \bar{K}^0$ Coward 85	
$\pi^0 \pi^- e^+ \nu_e$	Adler 89 Wasserbaech 89 Izen 88 Aguilarbenit 87F Schindler 87	$K^*(892)^0 \rho^0$ Schindler 85	
$\rho^0 e^- e^+$	Haas 88	$\bar{K}^*(892)^0 \pi^0$ Brient 87	
$\rho^0 \mu^- \mu^+$	Haas 88	$K^+ \pi^- e^- \bar{\nu}_e$ Aguilarbenit 87F	
$D_1(2420)^+$	Schindler 87	$K^+ 2\pi^0 \pi^-$ Adler 88F Aguilarbenit 87F Brient 87	
$D^*(2010)^+$	K^0 Miller 89	$K^+ 3\pi^0 \pi^-$ Aguilarbenit 87F	
$D_1(2420)^-$	Schindler 87	$K^+ \text{charged}$ Yamamoto 85	
$D_1(2420)^0$	Schindler 87	$K^+ e^- \bar{\nu}_e$ Adler 89 Wasserbaech 89 Anjos 88B Schindler 88 Aguilarbenit 87F Coward 85	
$D^*(2010)^+$	Schindler 87 Avery 90 Miller 89 Anjos 88F Roudeau 88 Albrecht 86B	$K^+ K^- \pi^+$ Barlag 88C	
$D^+ \pi^-$	Avery 90 Miller 89 Anjos 88F	$K^+ K^-$ Adler 88F Barlag 88C Brient 87 Baltrusaitis 85B Coward 85 Schindler 85 Yamamoto 85C	
$\bar{D}_1(2420)^0$	Schindler 87	$K^+ K^0 K^-$ Adler 88F Barlag 88C Bebek 86	
$D^*(2010)^+$	π^+ Anjos 88F Roudeau 88 Albrecht 86B	$K^+ \bar{K}^0 \pi^-$ Coward 85 Schindler 85	
$D^- \pi^+$	Anjos 88F	$K^+ K_S^- K^-$ Baltrusaitis 86D Coward 85	
$D_2^*(2460)^+$	$D^0 \pi^+$ Albrecht 89X	$K^+ \mu^- \bar{\nu}_\mu$ Schindler 88	
$D_2^*(2460)^-$	$\bar{D}^0 \pi^-$ Albrecht 89X	$K^+ \pi^+ 2\pi^-$ Braunschweig 90B Albrecht 89X Bortoletto 89B Braunschweig 89G Ouldsaada 89 Adler 88F Albrecht 88J Albrecht 88M	
$D_2^*(2460)^0$	$D^*(2010)^+ \pi^-$ Avery 90 Albrecht 89V	Anjos 88 Anjos 88C Barlag 88 Barlag 88C	
$D^+ \pi^-$	Avery 90 Albrecht 89V		$K^+ \pi^0 e^- \bar{\nu}_e$ Aguilarbenit 87F Coward 85
Avery 90 Anjos 88F	D^0 Anjos 88 Albrecht 87F		$K^+ \pi^0 \pi^-$ Braunschweig 89G

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

D^0

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D^0	Ouldsaada 89 Adler 88F Aguilarbenit 87F Albrecht 87B Albrecht 87P Barlow 87 Bartel 87B Brient 87 Wagner 87 Aihara 86E Althoff 86C Baltrusaitis 86E Schindler 86 Baltrusaitis 85D Coward 85 Schindler 85 Yamamoto 85C Sliwa 83	D^0	Danilov 88 Albrecht 87B Albrecht 87P Aleev 85	DD	Atkinson 85B Atkinson 85C Smith 85B Smith 85D Vassiliadis 85 Asai 84	$\Delta(1232 F_{33})^-$	Zhokin 89 Ballar 88
$K^+ \rho^-$	Brient 87 Coward 85 Schindler 85	$\mu^+ e^-$	Adler 88F Albrecht 88F Riles 87	$\Delta(1232 F_{33})$	Sealock 89 Ableev 87E Amelin 87	$\Delta(1232 F_{33})^0$	Degtyarenko 90 Armstrong 89E Drell 89 Halling 89 Zhokin 89 Alimov 88 Arkhipov 88 Arkhipov 87 Arkhipov 85 Babintsev 85
$K^+ X$	Aguilarbenit 88B Aguilarbenit 87E Aguilarbenit 86	$\mu^+ X$	Louis 86	$\Delta(1232 F_{33})^+$	Kopke 89 Amaglobeli 87	$p \pi^-$	Aihara 89 Albrecht 88R Batyunya 88B Amelin 87 Nagae 87 Batyunya 86C
$K^- 2\pi^+ \pi^-$	Albrecht 89P	$\mu^- e^+ + \mu^+ e^-$	Brient 87	$n \pi^+$	Ballar 88 Kitagaki 86	$\Delta(1620 S_{11})^-$	$p 2\pi^-$ Amelin 87
$K^- \pi^+ \pi^0$	Albrecht 89P Izen 88	$\mu^- e^+$	Adler 88F Albrecht 88F Riles 87	$p \pi^0$	Henrard 87 Kitagaki 86	$\Delta(1700 D_{33})^-$	Amelin 87
$K^- \pi^+$	Albrecht 89P	$\mu^- X$	Louis 86 Benvenuti 85	$\Delta(1232 F_{33})^{++}$	Abdullin 90 Degtyarenko 90 Vorobiev 90 Armstrong 89C Armstrong 89E Ellegaard 89 Halling 89 Klein 89C Kopke 89 Mattig 89 Alimov 88 Barlag 88C Diekmann 88 Okusawa 88 Ableev 87 Ableev 87D Ableev 87E Batyunya 87F Forino 87 Gerdnyukov 87 Hofmann 87B Mikhailichen 87 Wicklund 87 Ajinenko 86B Alasia 86 Armstrong 86D Bogolyubsky 86E Gerdnyukov 86B Babintsev 85 Baldin 85 Clark 85 Dainton 85 Ellegaard 85 Wicklund 85	$\Delta(1950 E)^{++}$	Batyunya 86C
$K^- X$	Aguilarbenit 87E	mult[charged] (neutrals)	Wagner 89B	$\phi \pi^+ \pi^-$	Barlag 88C	$\bar{\Delta}(1232 F_{33})^{--}$	Drell 89 Halling 89 Kopke 89 Barlag 88C Batyunya 87F Bogolyubsky 86E
$K^0 e^- e^+$	Adler 89C	nonres $< K^+ K^- > K^0$	Brient 87	$\pi^+ e^- \bar{\nu}_e$	Adler 89 Wasserbaech 89 Schindler 88 Aguilarbenit 87F	$\bar{\Delta}(1232 F_{33})^0$	Halling 89
$K^0 \eta$	Coward 85 Schindler 85	$\phi \pi^+ \pi^-$	Barlag 88C	$\pi^+ \pi^-$	Adler 88F Aguilarbenit 87F Brient 87 Jones 87B Baltrusaitis 85B Coward 85 Schindler 85	$p \pi^+$	Aihara 89 Albrecht 89I Bogolyubsky 89D Albrecht 88R Batyunya 88B Batyunya 87E Camilleri 87 Batyunya 86C
$K^0 K^- \pi^+$	Barlag 88C	$\pi^+ \pi^-$	Adler 88F Aguilarbenit 87F Brient 87 Jones 87B Baltrusaitis 85B Coward 85 Schindler 85	$\pi^+ \pi^0 e^- \bar{\nu}_e$	Adler 88F Aguilarbenit 87F Brient 87 Jones 87B Baltrusaitis 85B Coward 85 Schindler 85	$\bar{\Delta}(1950 E)^{--}$	Batyunya 86C
$K^0 \bar{K}^0$	Adler 88F Brient 87 Cumalat 87 Coward 85 Schindler 85	$\pi^+ \pi^0 \pi^-$	Coward 85 Schindler 85	$\pi^+ \pi^0 e^- \bar{\nu}_e$	Adler 88F Aguilarbenit 87F Brient 87 Jones 87B Baltrusaitis 85B Coward 85 Schindler 85	demon	Ableev 84B
$K^0 \omega$	Coward 85 Schindler 85	$\mu^\pm \nu$	Coopersarkar 85	$\pi^+ \pi^0 \pi^-$	Coward 85 Schindler 85	deuteron	Amelin 90 Dalitz 90 Ransome 90 Reesager 90 Tokushuku 90 Vlasov 90 Abdullin 89 Abdullin 89C Abdullin 89D Abdullin 89F Abdullin 89G Abramov 89B Adamyan 89 Bayukov 89C Belyaev 89 Belyaev 89C Bosted 89 Cebra 89
$K^0 \phi$	Adler 88F Barlag 88C	D(unspec)		$K^0 \pi^+ 2\pi^0 \pi^-$	Aguilarbenit 87F		
$K^0 \pi^+ 2\pi^0 \pi^-$	Aguilarbenit 87F	DD	Amos 90 Armstrong 90 Ajinenko 89B Antipov 89C Armstrong 89E Asai 89C Bogolyubsky 89B Bogolyubsky 89D Adamus 88F Aleev 88B Bonino 88 Boos 88C Breakstone 88 Cassata 88 Ajinenko 87B Batyunya 87E Batyunya 87F Biagi 87 Bogolyubsky 87 Bogolyubsky 87B Garutchava 87B Gerdnyukov 87 Kanzirski 87 Ansorge 86 Batyunya 86C Bernard 86B Lloydowen 86 Mikocki 86 Schmickel 86 Vegni 86 Abe 85	$K^0 \pi^+ e^- \bar{\nu}_e$	Aguilarbenit 87F Coward 85		
$K^0 \pi^+ \pi^-$	Braunschweig 90B Aguilarbenit 87F Coward 85 Schindler 85	$K^0 \pi^+ \pi^0 e^- \bar{\nu}_e$	Aguilarbenit 87F	$K^0 \pi^+ \pi^0 \pi^-$	Aguilarbenit 87F Coward 85 Schindler 85		
$K^0 \pi^+ \pi^0 \pi^-$	Aguilarbenit 87F Coward 85 Schindler 85	$K^0 \pi^+ \pi^0 \pi^-$	Aguilarbenit 87F	$K^0 \pi^- e^+ \nu_e$	Adler 88F Aguilarbenit 87F Brient 87 Coward 85		
$K^0 \pi^- e^+ \nu_e$	Adler 88F Aguilarbenit 87F Brient 87 Coward 85	$K^0 \rho^0$	Brient 87 Coward 85	$\bar{K}^0 \pi^+ \pi^-$	Izen 88		
$K^0 \rho^0$	Brient 87 Coward 85	$K_S \phi$	Baltrusaitis 86D	$K_S \pi^+ \pi^-$	Albrecht 88M		

η	η	η	$\eta(1440)$
Sirunyan 88 Abachi 87F Aihara 87G Albrecht 87Q Antille 87 Aulchenko 87C Bailly 87G Bailey 87H Barloutaud 87 Benayoun 87 Bernasconi 87 Camilleri 87 Chiba 87B Coffman 87 Derrick 87B Fredriksson 87 Gan 87B Hofmann 87B Kolanoski 87 Lurz 87 Peng 87 Prokoshkin 87B Richard 87 Schindler 87 Stockhausen 87B Aihara 86G Akeesson 86C Ando 86 Antreasyan 86 Apokin 86C Apokin 86D Atkinson 86 Aulchenko 86B Aulchenko 86C Baltrusaitis 86 Baltrusaitis 86C Banags 86B Burchat 86B Druzhinin 86 Haines 86 Konigsmann 86 Krishnaswamy 86 Stockhausen 86 Akeesson 85G Arkhipov 85 Atkinson 85C Augustin 85C Augustin 85E Baltrusaitis 85F Banner 85B Bartel 85 Berthet 85 Elewitt 85 Coward 85 Druzhinin 85 Golubev 85 Kolanoski 85 Lee 85B Oadian 85 Park 85B Prokoshkin 85 Schindler 85 Tsukerman 85B	Ajaltoni 88B Albrecht 88S Albrow 88 Aide 88B Aide 88D Aide 88E Antonelli 88 Arkhipov 88 Augustin 88C Behrend 88 Bielein 88 Boutemour 88 Dolinsky 88B Druzhinin 88 Fujisaki 88 Gan 88 Gidal 88B Gidal 88C Joussel 88 Keh 88B Schmitt 88 Seidel 88 Toki 88 Toki 88B Williams 88 Wormser 88B Aide 87 Aide 87B Antreasyan 87 Arkhipov 87 Baringer 87 Berger 87B Naroska 87 Okhrimenko 87 Skwarnicki 87B Toki 87 Wormser 87 Aguilarbenit 86C Aihara 86 Aide 86 Aide 86B Aide 86C Aide 86D Aide 86E Bitsadze 86 Landsberg 86 Lowe 86B Lowe 86C Akimenko 85 Apei 85 Apokin 85B Bartel 85B Chakrabarti 85 Dolinsky 85 Tsukerman 85 Toki 87	$\mu^- \mu^+$ Mayer 89 Prokoshkin 87C Landsberg 85 $\pi^+ \pi^-$ (neutrals) Decamp 90B $\pi^+ \pi^- \gamma$ Phillips 89 Ajaltoni 88B Albrecht 88P Antonelli 88 Augustin 88C Joussel 88 Landsberg 88 $\pi^+ \pi^-$ Mayer 89 Augustin 88C $\pi^+ \pi^0 \pi^-$ Albrecht 90E Adler 89E Anjos 89B Aston 89B Browder 89 Phillips 89 Wittek 89 Ajaltoni 88B Albrecht 88P Albrecht 88S Antonelli 88 Aston 88G Augustin 88C Behrend 88 Gan 88 Joussel 88 Baringer 87 Stockdale 87 Toki 87 Aleshin 86B Aston 86B $\pi^0 2\gamma$ Prokoshkin 87C Landsberg 86 $\pi^0 e^- e^+$ Mayer 89 Landsberg 86 Landsberg 85 $\pi^0 \mu^- \mu^+$ Mayer 89 Landsberg 86 Landsberg 85	$\eta(1440)$ $2K_S \pi^0$ Aihara 86C $2\rho^0$ Cason 89 $a_0(980) \pi$ Berger 87B $a_0(980)^+ \pi^-$ Toki 88B $a_0(980)^0 \pi^0$ Toki 88B Toki 88B Toki 87 $\eta 2\pi^0$ Antreasyan 87 $\eta \pi^+ \pi^-$ Takamatsu 89 Toki 88 $K \bar{K} \pi$ Stanco 88 Berger 87B $K^*(892)^0 K_S +$ $K^*(892)^- K^+$ Toki 88B $K^*(892)^0 K_S + K^*(892)^0 K_S$ $K^*(892) K + K^*(892) \bar{K}$ Toki 88B $K^+ K^- \pi^0$ Augustin 88C Becker 87C Tsukerman 85B $K^+ \bar{K}^0 \pi^- + K^0 K^- \pi^+$ Behrend 89E $K^+ K_S \pi^- + K_S K^- \pi^+$ Berger 87B Aihara 86C $K^+ K_S \pi^- X$ Bartel 85J $K^+ K_S \pi^-$ Feindt 89 Fulton 89B Takamatsu 89 Augustin 88C Chan 88 Falvard 88 Barlow 87 Becker 87C Benayoun 87B Toki 87 Aihara 86J Chung 85 Tsukerman 85B $K^+ \pi^- X$ Duch 89 $K^- \pi^+ X$ Duch 89 $K_S K^- \pi^+ X$ Bartel 85J $K_S K^- \pi^+$ Feindt 89 Fulton 89B Takamatsu 89 Augustin 88C Chan 88 Falvard 88 Barlow 87 Becker 87C Benayoun 87B Toki 87 Aihara 86J Tsukerman 85B $K_S kaon \pi$ Toki 88B $\phi \gamma$ Bituykov 87 $\rho^0 \gamma$ Toki 88 Toki 88B Berger 87B
2γ	$2\text{neutral (neutrals)}$ $3\pi^0$ $e^- e^+ \gamma$ $e^- e^+$ $\mu^+ e^-$ $\mu^- e^+$ $\mu^- \mu^+ \gamma$	Bergner 89 Hirata 89B Aide 88B Bielein 88 Dolinsky 88B Schmitt 88 Aide 87B Aide 86 Lowe 86B Mayer 89 Landsberg 86 Landsberg 85 Mayer 89 Mayer 89 Mayer 89 Mayer 89 Bannikov 89B Mayer 89 Prokoshkin 87C Landsberg 86 Landsberg 85	$\eta(1295)$ $2\pi^+ 2\pi^-$ Stanco 88 $a_0(980)^+ \pi^-$ Ando 86 $a_0(980)^- \pi^+$ Ando 86 $\eta 2\pi^0$ Antreasyan 87 $\eta \pi^+ \pi^-$ Takamatsu 89 $\eta \pi\pi(L=0)$ Ando 86 $K^+ K_S \pi^-$ Takamatsu 89 Augustin 88C $K_S K^- \pi^+$ Takamatsu 89 $K_S kaon \pi$ Toki 88B $\phi \gamma$ Bituykov 87 $\rho^0 \gamma$ Coffman 89
		$\eta(1440)$ 2γ	Althoff 85D Richman 85 Berger 87B
			$7b$ Franzini 87 Rosner 85E

$\eta_c(1S)$

exotic-meson

$\eta_c(1S)$	$\eta_c(1S)$	η'	η'
$2f_2(1270)$	Kopke 89 Althoff 85D Augustin 85D Gaiser 85	Jensen 89 Mallik 89B Schindler 87 Baltrusaitis 86	Chiba 87B Hofmann 87B Prokoshkin 87B Baltrusaitis 86 Baltrusaitis 85F Druzhinin 85 Kolanoski 85 Lee 85B Prokoshkin 85 Tsukerman 85B
2γ	Mallik 89B Adler 88D Augustin 88C Mir 88	$K^*(892)^0 K^+ \pi^+$ $\bar{K}^*(892)^0 K^- \pi^+$ $K^*(892)^0 K^- \pi^+$ $\bar{K}^*(892)^0 K^+ \pi^-$	2γ Roe 89 Roe 89B Aihara 88D Ajaltouni 88 Albrow 88 Alde 88D Augustin 88C Bienlein 88 Gidal 88C Toki 88B Williams 88 Berger 87B Kolanoski 87 Toki 87 Aguilarenbit 86C Alde 86E Apokin 86C Apokin 86D Lancsberg 86 Lowe 86B Apokin 85B Tsukerman 85
$2K^+ 2K^-$	Chen 89C Aihara 88B Ajaltouni 88 Augustin 88C Baglin 87 Barlow 87 Berger 87B Toki 87 Blinov 86C Chiang 86 Kolanoski 86	$K^+ K^- \eta$ $K^+ K^- \phi$ $K^+ K^- \pi^+$	$\pi^0 2\gamma$ $\pi^0 e^- e^+$ $\pi^0 \mu^- \mu^+$
2ω	Mallik 89B Baltrusaitis 86	$K^+ K^- \pi^0$ $K^+ K_S^- \pi^-$	$\rho \gamma$ $\rho^0 \gamma$
2ϕ	Chen 89C Jensen 89 Mallik 89B Aihara 88 Aihara 88B Toki 87 Baltrusaitis 86 Bisello 86 Booth 86	$K^+ K_S^- \pi^-$ $K^+ K_S^- \pi^-$	$\rho^0 \gamma$ Albrecht 90 Bitukov 90 Ajaltouni 88B Augustin 88C Jousset 88 Aihara 87 Albrecht 87M Blinov 87C Kolanoski 87 Toki 87 Landsberg 86 Landsberg 85
$2\pi^+ 2\pi^-$	Braunschweig 89 Chen 89C Mallik 89B Adler 88D Aihara 88 Aihara 88B Bisello 88 Gidal 88C Ouldsaada 88B Baltrusaitis 86	$K^+ K_S^- \pi^-$ $K^+ K_S^- \pi^-$	Eu Kozma 90 Kozma 88
$a_0(980)^+ \pi^-$	Chen 89C Jensen 89 Mallik 89B Adler 88D Aihara 88B Augustin 88C Bisello 88 Mir 88 Toki 87 Baltrusaitis 86	$K^+ K_S^- \pi^-$ $K^+ K_S^- \pi^-$	even-charged Tenner 88
$a_0(980)^- \pi^+$	Braunschweig 89 Chen 89C Mallik 89B Adler 88D Aihara 88 Aihara 88B Bisello 88 Gidal 88C Ouldsaada 88B Baltrusaitis 86	$K^+ K_S^- \pi^-$ $K^+ K_S^- \pi^-$	exotic Ableev 86 Abramov 86B Abachi 85
$a_2(1320)^+ \pi^-$	Braunschweig 89 Chen 89C Mallik 89B Adler 88D Aihara 88B Augustin 88C Bisello 88 Mir 88 Toki 87 Baltrusaitis 86	$K^+ K_S^- \pi^-$ $K^+ K_S^- \pi^-$	exotic-meson 2ω Landsberg 89 2ϕ Landsberg 89 Davenport 86 Green 86 $2\rho^0$ Landsberg 89 $\eta \pi^+$ Landsberg 89 $\eta \pi^0$ Landsberg 89 $K^*(892)^+ K^*(892)^-$ Landsberg 89 $K^*(892)^0 \bar{K}^*(892)^0$ Landsberg 89 $K^+ K^- \phi$ Green 86 $n \bar{\Lambda} \pi^-$ Landsberg 89 Shoemaker 88 $n \Sigma^+ 2\pi^-$ Landsberg 89 Shoemaker 88 $n \bar{\Sigma}^- \pi^+ \pi^-$ Landsberg 89 Shoemaker 88 $n \bar{\Sigma}^- \pi^+$ Landsberg 89 $n \bar{\Sigma}^-$ Shoemaker 88 $\omega \pi$ Landsberg 89 $\omega \rho^0$ Landsberg 89 $p \bar{\Lambda} 2\pi^-$ Landsberg 89
$a_2(1320)^- \pi^+$	Braunschweig 89 Chen 89C Mallik 89B Adler 88D Aihara 88B Augustin 88C Bisello 88 Mir 88 Toki 87 Baltrusaitis 86	$p \bar{p} \pi^+ \pi^-$ $p \bar{p}$	
$\eta \pi^+ \pi^-$	Toki 87 Baltrusaitis 86	$\phi \omega$	
$\eta' \pi^+ \pi^-$	Toki 87 Baltrusaitis 86	η'	
$f_2(1270) \eta$	Baltrusaitis 86	Boutemour 89 Browder 89 Chiba 89 Dolinsky 89 Kopke 89 Landsberg 89 Schindler 89 Wormser 89 Adiels 88 Albajar 88C Chiba 88 Coffman 88 Hitlin 88 Mir 88 Sedlak 88 Bailey 87G Bailey 87H Benayoun 87	Albrecht 90 Adler 89E Dolinsky 89B Aihara 88D Ajaltouni 88B Augustin 88C Druzhinin 88 Gidal 88B Gidal 88C Jousset 88 Wormser 88B Aulchenko 87C Kolanoski 87 Toki 87 Wormser 87 Aulchenko 86B Aulchenko 86C
$K \bar{K} \pi$	Berger 87B	$\eta \pi^+ \pi^-$	Bannikov 89B Prokoshkin 87C Landsberg 86
$K^*(892)^0 \bar{K}^*(892)^0$	Chen 89C	$\mu^- \mu^+ \gamma$	

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

exotic-meson

exotic-meson	$f_0(1750)$	$f_1(1285)$	$f_1(1420)$
$p \bar{\Lambda} \pi^+ \pi^-$	Shoemaker 88	Gidal 88C Ouldsaada 88B Toki 88B	$K^+ K_S \pi^-$ Armstrong 89 Feindt 89 Hill 89
$p \bar{\Lambda} \pi^+$	Landsberg 89	$K^*(892)^+ K^-$ Augustin 88C	Aston 88J Ouldsaada 88B Sedlak 88 Toki 88B
$p \bar{\Lambda} \pi^-$	Landsberg 89	$K^*(892)^- K^+$ Augustin 88C	Becker 87C Toki 87 Aihara 86J Chung 85
$p \bar{\Sigma}^- \pi^-$	Landsberg 89	$K^*(892)^0 K_S$ Rath 89 Augustin 88C	$K_S K^- \pi^+$ Armstrong 89 Feindt 89 Hill 89
$\bar{p} \Lambda 2\pi^+$	Shoemaker 88	$\bar{K}^*(892)^0 K_S$ Augustin 88C	Aston 88J Ouldsaada 88B Sedlak 88 Becker 87C Toki 87 Aihara 86J Chung 85
$\bar{p} \Lambda \pi^+ \pi^-$	Landsberg 89	$K^+ K^- \pi^0$ Becker 87C	$\phi \gamma$ Augustin 88C Bityukov 87
$\bar{p} \Lambda \pi^+$	Landsberg 89	$K^+ \bar{K}^0 \pi^-$ Birman 88	
$\bar{p} \Lambda \pi^-$	Landsberg 89	$K^+ K_S \pi^- + K_S K^- \pi^+$ Gidal 88	
$\phi \pi^+ \pi^-$	Green 86	$K^+ K_S \pi^-$ Armstrong 89 Takamatsu 89 Aston 88J Augustin 88C Sedlak 88 Toki 88B Becker 87C Chung 85	
$\phi \pi^0$	Landsberg 89	$K^+ \pi^- X$ Duch 89	
$\phi \pi$	Landsberg 89	$K^- \pi^+ X$ Duch 89	
$\phi \rho^0$	Landsberg 89	$K_S K^- \pi^+$ Armstrong 89 Takamatsu 89 Aston 88J Augustin 88C Sedlak 88 Becker 87C	$\alpha_0(980) \pi$ Toki 88B
$\pi^+ \pi^-$	May 89	$\phi \gamma$ Augustin 88C Bityukov 88 Bityukov 87 Landsberg 87 Prokoshkin 87B	$K^*(892)^0 K_S^+$ Aston 86B
$\rho^+ \rho^-$	Landsberg 89	$\rho^0 \gamma$ Bityukov 89 Coffman 89 Toki 88B	$K^*(892)^- K^+$ Toki 88B
$\rho^0 \pi^+$	Landsberg 89	$\rho^0 \pi^+ \pi^-$ Armstrong 89C Arinstrong 89E Augustin 88C	$K^*(892) K$ Aston 86B
			$K^+ K_S \pi^-$ Aston 86B Aston 88I Aston 88J Augustin 88C Aston 86B
exotic-nucleon			$K_S K^- \pi^+$ Aston 88I Aston 88J Augustin 88C Aston 86B
$p 3\pi^+ \pi^-$	Brovkin 89		$\phi \gamma$ Bityukov 87
$f_0(1240)$			
2γ	Landsberg 86		
$\pi^+ \pi^-$	Joyner 89		
$f_0(1400)$			
2η	Halling 89		
2γ	Alde 86		
$2\pi^0$	Berger 87B		
	Dolinsky 89B Bienenle 88 Aulchenko 87C		
2π	Berger 87B		
$e^- e^+$	Vorobiev 88C		
$f_0(1525)$			
$2K_S$	Aston 88I Aston 88J Albrecht 89J		
$K^+ K^-$			
$f_0(1590)$			
2η	Diekmann 88 Augustin 88C Toki 88B Alde 87 Prokoshkin 87C Alde 86 Tsukerman 85B		
$4\pi^0$	Toki 88B Alde 87D		
$\eta' \eta$	Toki 88B Tsukerman 85B		
$f_0(1750)$			
$2K_S$	Bolonkin 88		
$f_0(700)$			
2γ	Courau 86 Berger 85C		
$\pi^+ \pi^-$			
$f_0(975)$			
	Bai 90 Barlag 90C Marsiske 90 Alder 89 Browder 89 Drell 89 Kopke 89 Mattig 89 Schindler 89 Toki 89B Anjos 88D Gidal 88C Fredriksson 87 Druzhinin 85		
2γ	Berger 87B		
$2K_S$	Aston 88I Aston 88J Sedlak 88 Kolanoski 87		
$2\pi^0$	Dolinsky 89 Dolinsky 89B Lockman 89 Bienenle 88 Aulchenko 87C		
2π	Toki 88B		
$e^- e^+$	Vorobiev 88C		
$K^+ K^-$	Lockman 89		
$\pi^+ \pi^-$	Adler 89E Lockman 89 Mallik 89B Augustin 88B Falvard 88 Abachi 86C Banerjee 86C Kozlovsky 86		
$f_1(1285)$			
2γ	Bityukov 85C		
$2K_S \pi^0$	Aihara 88D		
$2\pi^+ 2\pi^-$	Cason 89 Armstrong 89E Mallik 89B Adler 88D Aihara 88D Augustin 88C Mir 88 Stanco 88		
$\alpha_0(980)^+ \pi$	Augustin 88C Ouldsaada 88B Armstrong 86E		
$\alpha_0(980)^- \pi^+$	Augustin 88C Ouldsaada 88B Armstrong 86E		
$\alpha_0(980)^0 \pi^0$	Rath 89		
$\eta \pi^+ \pi^-$	Feindt 89 Takamatsu 89 Aihara 88D Aihara 88E Augustin 88C Gidal 88B		
$f_1(1285)$			
$2K_S$	Bolonkin 88		
$\alpha_0(980) \pi$	Toki 88B		
$\alpha_0(980)^+ \pi^-$	Augustin 88C Armstrong 86E		
$\alpha_0(980)^- \pi^+$	Augustin 88C Armstrong 86E		
$K^*(892)^+ K^-$	Augustin 88C		
$K^*(892)^- K^+$	Augustin 88C		
$K^*(892)^0 K_S^+$			
$K^*(892)^- K^+$	Toki 88B		
$K^*(892)^0 K_S$	Augustin 88C		
$\bar{K}^*(892)^0 K_S$	Augustin 88C		
$K^+ K^- \pi^0$	Becker 87C		
$f_1(1420)$			
$2K_S$	Ando 86 Bityukov 85C		
$\alpha_0(980) \pi$	Toki 88B		
$\alpha_0(980)^+ \pi^-$	Augustin 88C Armstrong 86E		
$\alpha_0(980)^- \pi^+$	Augustin 88C Armstrong 86E		
$K^*(892)^+ K^-$	Augustin 88C		
$K^*(892)^- K^+$	Augustin 88C		
$K^*(892)^0 K_S^+$			
$K^*(892)^- K^+$	Toki 88B		
$K^*(892)^0 K_S$	Augustin 88C		
$\bar{K}^*(892)^0 K_S$	Augustin 88C		
$K^+ K^- \pi^0$	Becker 87C		
$f_2(1270)$			
2η	Marsiske 90 Avery 89B Bortoletto 89 Drell 89 Halling 89 Kopke 89 Mattig 89 Adler 88D Berger 88 Bolonkin 87 Baltrusaitis 86 Althoff 85D		
2γ	Ajaltouni 88 Prokoshkin 87C Alde 86		
2γ	Albrecht 89K Roe 89 Berger 87B Aihara 86D Landsberg 86 Tsukerman 85		
$2K_S$	Armstrong 89D Aston 88H Augustin 88 Bolonkin 88 Longacre 86 Longacre 86B Baloshin 84		

$f_2(1270)$

Fl

$f_2(1270)$		$f_2(1720)$		$f_2'(1525)$		$f_4(2220)$
$2\pi^0$	Dolinsky 89B Ajaltouni 88 Augustin 88B Bienlein 88 Gidal 88C Schmitt 88 Aulchenko 87C Kolanoski 87 Toki 87 Apokin 86B Apokin 86C Apokin 86D Lowe 86B Clark 85	Aston 86B Bolonkin 86 Longacre 86 Longacre 86B Hitlin 88 Ajaltouni 88 Hitlin 88 2π Tsukerman 85B $2\rho^0$ Berger 87B 2ρ Hitlin 88 Tsukerman 85B $\eta' \eta$ $K \bar{K} 2\pi$ $K \bar{K} \pi$ $K \bar{K}$ Toki 88B Berger 87B Tsukerman 85B $K^+ K^-$ Albrecht 89J Fulton 89B Mallik 89B Augustin 88C Hitlin 88 Berger 87B Toki 87 Bean 86 $\pi^+ \pi^-$ Albrecht 89J Augustin 88C Hitlin 88 Bean 86		2γ $2K_S$ Feindt 89 Mallik 89B Aston 88C Aston 88I Aston 88J Augustin 88 Augustin 88C Berger 88 Bolonkin 88 Sedlak 86 Toki 88B Toki 87 Aston 86B Bolonkin 86 Longacre 86 Longacre 86B Baloshin 84 $K \bar{K}$ Toki 88B Berger 87B $K^+ K^-$ Fulton 89B Mallik 89B Aston 88I Aston 88J Augustin 88 Augustin 88C Falvard 88 Baltrusaitis 87 Toki 87 Aston 86B Bean 86		$K^*(892)^+ K^*(892)^-$ Baltrusaitis 86C $K^*(892)^+ K^-$ Baltrusaitis 86C $K^*(892)^- K^+$ Baltrusaitis 86C $K^*(892) K^*(892)$ Tsukerman 85B $K^*(892) K$ Tsukerman 85B $K^+ K^-$ Albrecht 89J Aston 88I Aston 88J Augustin 88 Augustin 88C Bardin 87 Toki 87 Aston 86B Baltrusaitis 86C Bean 86 Tsukerman 85B $\mu^- \mu^+$ Baltrusaitis 86C Tsukerman 85B $p \bar{p}$ Baltrusaitis 86C Tsukerman 85B $\phi \omega$ Mallik 89B $\pi^+ \pi^-$ Baltrusaitis 86C
$4\pi^0$	Alde 87D					familion
$e^- e^+$	Vorobiev 88C					Fe
$K^+ K^-$	Armstrong 89D Aston 88H Augustin 88 Baltrusaitis 87 Benayoun 87B					Jodidio 86
$\pi^+ \pi^-$	Adachi 90 Arefiev 90B Agababyan 89 Ajinenko 89B Albrecht 89J Armstrong 89C Armstrong 89E Breakstone 89 Feindt 89 Fulton 89B Mallik 89B Nakai 89 Witek 89 Zhokin 89 Augustin 88B Augustin 88C Falvard 88 Gidal 88C Mir 88 Sedlak 88 Augustin 87 Bailey 87C Baltrusaitis 87 Benayoun 87B Toki 87 Abachi 86C Bean 86 Breakstone 86 Kozlovsky 86					Kozma 90 Kozma 88 Antipov 86 Antipov 86B Sokoloff 86 Antipov 85 Antipov 85B Antipov 85C
	Adachi 90 Arefiev 90B Agababyan 89 Ajinenko 89B Albrecht 89J Armstrong 89C Armstrong 89E Breakstone 89 Feindt 89 Fulton 89B Mallik 89B Nakai 89 Witek 89 Zhokin 89 Augustin 88B Augustin 88C Falvard 88 Gidal 88C Mir 88 Sedlak 88 Augustin 87 Bailey 87C Baltrusaitis 87 Benayoun 87B Toki 87 Abachi 86C Bean 86 Breakstone 86 Kozlovsky 86					^{56}Fe γ
	Batyunya 88B	$f_2(1810)$		$f_4(2050)$		^{52}Fe
		$2K_S$ Longacre 86 Longacre 86B		2η Bolonkin 87 Althoff 85D		^{54}Fe Dickey 85
		$4\pi^0$ Alde 87D		$2K_S$ Alde 86		^{56}Fe Kozma 88B
		$f_2(2010)$		2ω Bolonkin 88 Alde 90		^{58}Fe
		$2K_S$ Bolonkin 88		$f_4(2220)$		Kozma 86 Dickey 85
		2ϕ Augustin 88C Longacre 87 Longacre 86B Tsukerman 85B		2η Baru 89 Berger 88 Baru 87 Baru 86B		^{54}Fe Hardy 89 Dickey 85
		$f_2(2300)$		2γ Alde 86 Baltrusaitis 86C		^{57}Fe Vesna 89
		$2K_S$ Bolonkin 87		$2K_S$ Albrecht 89K		^{60}Fe Arakelyan 90 Kozma 88B Kozma 86 Hufner 85
		2ϕ Augustin 88C Longacre 87 Longacre 86B Tsukerman 85B		2ϕ Aston 88C Augustin 88 Augustin 88C Behrend 88E Toki 88B Toki 87 Aston 86B Baltrusaitis 86C Tsukerman 85B		^{61}Fe Arakelyan 90
		$f_2(2340)$		2π Mallik 89B		fireball
		Augustin 88C Longacre 87 Longacre 86B Tsukerman 85B		$\eta' \eta$ Augustin 88C Prokoshkin 87B Toki 87 Alde 86E		mult[charged] X Shivpuri 88
$f_2(1720)$		$f_2'(1525)$		$K 2\eta$ Tsukerman 85B		Fl
	Aston 88H Augustin 88 Berger 88 Benayoun 87B Bolonkin 87 Althoff 85D	Kopke 89 Gidal 88C Bolonkin 87 Kolanoski 87 Althoff 85D		$K^*(892) \bar{K}$ Tsukerman 85B		Baroni 90 Avdechikov 87 Avdechikov 87C Avdechikov 87C Avdechikov 87E Avdechikov 87F
2η	Ajaltouni 88 Augustin 88C Hitlin 88 Schmitt 88 Berger 87B Toki 87 Tsukerman 85B	Augustin 88C				
2γ	Albrecht 89K Berger 87B					
$2K_S$	Fulton 89B Mallik 89B Augustin 88C Behrend 88E Bolonkin 88 Hitlin 88 Toki 88B					

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

Fl	Avdejchikov 87G Avdejchikov 87H Avdejchikov 87I	fragt	Daindsuren 89 Damdsuren 89B Delima 89 Guaraldo 89 Heppelmann 89 Kozma 89 Kozma 89C Lepekhn 89 Amroyan 88 Damdsuren 88B Filatov 88 Franz 88B Kitagaki 88 Krasnov 88B Ardito 87 Bailestra 87 Bayman 87 Cai 87 Chestnov 87 Fredriksson 87 Kozma 87 Krasnov 87 Nagae 87 Abdinov 86 Arakelyan 86 Barate 86B Green 86B Kozma 86B Agababayan 85B Andreeva 85C Azimov 85G Bell 85D Hicks 85 Hufner 85 Mangotra 85 Roepek 85 Roche 84	⁷⁶Ge	Caldwell 88 Nakamura 88 Vasenko 88 Caldwell 87 Fisher 87	gluon	Abrams 89F Adachi 89E Albrecht 89S Eno 89B Eno 89C Albrecht 87H Bartel 87 Albrecht 86 Behrend 86C Petersen 85
¹⁸F	Dropesky 86			⁷⁶Se 2e⁻	Barabash 89B Fisher 89 Vasenko 89 Caldwell 88 Nakamura 88 Rosen 88 Vasenko 88 Avignone 87 Caldwell 87 Fisher 87 Avignone 86B Bellotti 86 Caldwell 86 Avignone 85 Caldwell 85 Zdesenko 85	charged X Maki 88B Tao 88	
frag	Andreeva 88 Brechtmann 88 Brechtmann 88B Damdsuren 88 Karev 88 Kozma 88B Krasnov 88B Mahi 88 Alekkett 87 Cai 87 Cai 87B Elnaghy 87 Elnaghy 87B Harris 87 Tolstov 87 Andreeva 86 Shibata 86 Tanihata 86 Aggarwal 85B Bell 85 Bujak 85 Cheplakov 85 Dersch 85 Vokalova 85 Wagner 85			glueball	Kopke 89 Prokoshkin 85	hadron (hadrons) Braunschweig 89E	
fragb	Antonchik 90 Ghosh 90 Gill 90 Abdurakhimov 89 Ameeva 89 Andersen 89 Aoki 89 Bartke 89 Ghosh 89C Lepekhn 89 London 89 Romano 89 Tannenbaum 89 Abdurakhimov 88 Abdurazakova 88 Adamovich 88C Andreeva 88C Angelov 88 Barbier 88B Batskovich 88 Bogdanov 88 Brady 88 Franz 88B Golovin 88 Khan 88 Krasnov 88 Krasnov 88B Otterlund 88 Price 88 Tannenbaum 88 Vokal 88 Ameeva 87 Ardito 87 Cai 87 Gerbier 87 Anikina 86D Burnett 86 Andreeva 85C Drechsel 85 Jovchev 85 Mangotra 85 Veres 85	Ga	Kozma 90	2η	Landsberg 89 Aide 86 Taukerman 85B	jet Kim 89C Derrick 85G	
		gaugino		2η'	Landsberg 89	goldstino	Abe 89F Bartel 85C
		e ⁻ ν _e photino + e ⁺ ν _e photino	Yamauchi 88	2K_S π⁰	Chan 88	goldstone	Baltrusaitis 85J
		μ ⁻ ν _μ photino + μ ⁺ ν _μ photino	Yamauchi 88	2φ	Landsberg 89 Chan 88 Etkin 88 Longacre 87 Bisello 86B Longacre 86B Etkin 85 Taukerman 85B	gravitino	Albrecht 86C
		τ ⁻ ν _τ photino + τ ⁺ ν _τ photino	Yamauchi 88	4π⁰	Landsberg 89	grey	Ahmad 90 Antonchik 90 Gill 90 Abduzhamilov 89 Adamovich 89C Adamovich 89D Ahmad 89 Ameeva 89 Ammar 89 Ammar 89B Andreeva 89 Brick 89 Lepekhn 89 Abduzhamilov 88B Abduzhamilov 88C Abe 88 Ammar 88 Andreeva 88 Barbier 88 Boos 88 Jain 88B Khan 88 Krasnov 88B Otterlund 88 Shivpuri 88B Tretyakova 88 Vokal 88 Abdurazakova 87 Abduzhamilov 87 Ammosov 87C Antonchik 87 Ardito 87 Bailly 87D Elnaghy 87 Fredriksson 87 Krasnov 87 Shivpuri 87 Ahrar 86 Andreeva 86 Ghosh 86 Voyvodic 86 Azimov 85G Babecki 85 Batusov 85 Bolden 85 Vokalova 85
		Gd	Kozma 90 Kozma 88	η' η	Landsberg 89 Tsuerman 85B		
		¹⁴⁰Gd	Hufner 85	Λ $\bar{\Lambda}$	Armstrong 87		
		Ge	Belkacem 85	p \bar{p} 2π⁺ 2π⁻	Armstrong 87		
		⁷⁰Ge	Ejiri 89	p \bar{p} π⁺ π⁻	Armstrong 87		
		⁷¹Ge	Krofcheck 85	p \bar{p}	Armstrong 87		
		⁷²Ge		π⁺ π⁻	Chan 88		
		⁷⁰Ge dibaryon (S = -1) γ	Ejiri 89	gluinium	Tuts 87		
		⁷⁶Ge	Se* 2e ⁻ Morales 88 ⁷⁶Se 2e⁻ 2ν_e Barabash 89B Vasenko 89 Nakamura 88 Vasenko 88	gluino	Sinervo 89 Dowell 88 Albajar 87B Arnold 87 Albrecht 86 Badier 86 Bartel 86F Behrend 87		
		⁷⁶Se 2e⁻ majoron	Barabash 89B Fisher 89 Vasenko 89	2hadron (hadrons)			
anomalon X	Avdejchikov 85			photino \bar{q}	Plotowbesch 88		
fragt	Arakelyan 89 Arakelyan 89C Bartke 89			q \bar{q} photino	Alitti 89 Ansari 87D Coopersarkar 85B	h₁(1170)	Diekmann 88
				q \bar{q}	Plotowbesch 88		Inagaki 89B
				gluon	Breakstone 90		Takamatsu 89

$h_1(1380)$

heavy-lepton⁰

<p>$h_1(1380)$</p> <p>$K^+ K_S \pi^-$ Aston 88I Aston 88J Augustin 88C</p> <p>$K_S K^- \pi^+$ Aston 88I Aston 88J Augustin 88C</p>	<p>^3He</p> <p>Avdejchikov 88 Avramenko 88 Berger 88C Boudard 88 Kobayashi 88 Nakamura 88 Pillai 88 Safonov 88B Bailestra 87 Beck 87 Boris 87 Boris 87B Gornov 87B Kawakami 87 Wilkerson 87 Barreau 86 Doerr 86 Ergakov 86 Fearing 86 Fritschi 86 Glagolev 86 Gornov 86B Marx 86 Zelinski 86 Abashidze 85B Alkhazov 85 Bailestra 85 Barkov 85C Beltramin 85 Berthet 85 Boris 85 Gorshkova 85 Hasell 85 Mcparlant 85 Mcparlant 85B Ottermann 85 Segel 85 Silverman 85 Abashidze 84 Bailestra 84</p>	<p>^6Hes</p> <p>$^6\text{Hes } p \pi^-$ May 89B</p> <p>heavy-e</p> <p>$e^\pm \gamma$ Dolinsky 89B</p> <p>heavy-lepton</p> <p>Kichimi 88 Riles 88 Rosenfeld 88 Miyamoto 87 Sakai 87 Albajar 86B</p> <p>$2l \nu$ Kim 88</p> <p>$3l$ Maki 88B</p> <p>jet X Ash 85D</p> <p>ν hadron (hadrons) Maki 88B</p> <p>$\nu q \bar{q}$ Kim 88</p> <p>νq Unno 88</p> <p>$\nu_e X$ Duffy 88</p> <p>$\nu_\mu X$ Duffy 88</p> <p>$\pi^+ \mu^-$ Ramm 85</p>	<p>heavy-lepton\pm</p> <p>$e^- \bar{\nu}_e$ heavy-lepton⁰ Wu 87</p> <p>heavy-lepton⁰ hadron (hadrons) Wu 87</p> <p>$\mu^- \bar{\nu}_\mu$ heavy-lepton⁰ Wu 87</p> <p>$\tau^- \bar{\nu}_\tau$ heavy-lepton⁰ Wu 87</p>
<p>$^3\text{H}_S$</p> <p>$^3\text{He } \pi^-$ Abdurakhimov 89C</p>			<p>heavy-lepton⁻</p> <p>Akrawy 90B Soderstrom 90 Akrawy 89D Decamp 89E Kim 89E Adachi 88B Dowell 88 Kamae 88 Ko 88 Maki 88 Maki 88B Unno 88 Yamauchi 88 Wu 87</p>
<p>^4H</p> <p>Amelin 90 Gornov 87</p>			<p>heavy-lepton⁻</p> <p>Akrawy 90B Soderstrom 90 Akrawy 89D Decamp 89E Kim 89E Riles 89 Riles 89B</p>
<p>$^4\text{H}_S$</p> <p>deuteron $n \Sigma^+ \pi^-$ Dalitz 90</p> <p>deuteron $n \Sigma^- \pi^+$ Dalitz 90</p> <p>$^3\text{He } \Lambda \pi^-$ Dalitz 90</p> <p>$^3\text{He } n \pi^-$ Abdurakhimov 89C</p> <p>$^3\text{He } \Sigma^0 \pi^-$ Dalitz 90</p> <p>$^4\text{He } \pi^-$ Abdurakhimov 89C Avramenko 88 Avramenko 87</p> <p>$p 2n \Sigma^+ \pi^-$ Dalitz 90</p> <p>$p 2n \Sigma^- \pi^+$ Dalitz 90</p>	<p>^3He Prokoshkin 87C</p> <p>^4He</p> <p>Asanuma 90 Borzakov 90 Gill 90 Reesager 90 Bini 89B Cebra 89 Kobayashi 89C May 89B Abdurazakova 88 Argan 88 Batusov 88 Kobayashi 88 Safonov 88B Savage 88C Weller 88 Aleksandrov 87B Ardito 87 Banaigs 87 Gornov 87B Aloksanyan 86 Ermakov 86C Gornov 86B Marx 86 Barkov 85C Vanoers 85 Waddington 85</p>	<p>heavy-lepton⁺</p> <p>Akrawy 90B Soderstrom 90 Akrawy 89D Decamp 89E Kim 89E Riles 89 Riles 89B Adachi 88B Dowell 88 Kamae 88 Ko 88 Maki 88 Maki 88B Unno 88 Yamauchi 88 Wu 87</p> <p>$2l$ (leptons) $\bar{\nu}$ Kim 88D</p> <p>$\bar{d} u$ Albajar 89B</p> <p>$e^+ \nu_e \bar{\nu}$ Behrend 88C Gan 88 Mathis 88</p> <p>$l^+ \nu \bar{\nu}$ Adachi 89B</p> <p>$\mu^+ \nu_\mu \bar{\nu}$ Behrend 88C Gan 88 Mathis 88</p> <p>$\bar{\nu} 2\text{hadron (hadrons)}$ Kim 88D Sumiyoshi 88</p> <p>$\bar{\nu} c \bar{s}$ Albajar 89B Gan 88 Igarashi 87</p> <p>$\bar{\nu} q \bar{q}$ Behrend 88C Gan 88 Mathis 88 Amako 87 Yoshida 87</p> <p>$\bar{\nu} X$ Abe 88D</p> <p>$\bar{\nu}$ hadron (hadrons) Gan 88 Igarashi 87</p> <p>$\bar{\nu} q \bar{q}$ Behrend 88C Shirai 88 Amako 87 Yoshida 87</p> <p>$\bar{\nu} X$ Abe 88D</p> <p>$\pi^+ \bar{\nu}$ Mathis 88</p> <p>$\tau^+ \nu_\tau \bar{\nu}$ Behrend 88C</p>	<p>$2l$ (leptons) ν Kim 88D</p> <p>$\alpha_1(1260)^-$ heavy-lepton⁰ Riles 89</p> <p>$d \bar{u}$ Albajar 89B</p> <p>$e^- \nu_e \nu$ Behrend 88C Riles 89 Riles 89B</p> <p>$e^- \bar{\nu}_e$ heavy-lepton⁰ Riles 89 Riles 89B</p> <p>$e^- \bar{\nu}_e \nu$ Gan 88 Mathis 88</p> <p>$K^*(892)^-$ heavy-lepton⁰ Riles 89</p> <p>K^- heavy-lepton⁰ Riles 89</p> <p>$l^+ \nu \bar{\nu}$ Adachi 89B</p> <p>$\mu^- \nu_\mu \nu$ Behrend 88C</p> <p>$\mu^- \bar{\nu}_\mu$ heavy-lepton⁰ Riles 89 Riles 89B</p> <p>$\mu^- \bar{\nu}_\mu \nu$ Gan 88 Mathis 88</p> <p>$\nu 2\text{hadron (hadrons)}$ Kim 88D Sumiyoshi 88</p> <p>$\nu \bar{c} s$ Albajar 89B Gan 88 Igarashi 87</p> <p>$\nu q \bar{q}$ Behrend 88C Shirai 88 Amako 87 Yoshida 87</p> <p>νX Abe 88D</p> <p>π^- heavy-lepton⁰ Riles 89 Riles 89B</p> <p>$\pi^- \nu$ Mathis 88</p> <p>ρ^- heavy-lepton⁰ Riles 89 Riles 89B</p> <p>$\tau^- \nu_\tau \nu$ Behrend 88C</p>
<p>^5H</p> <p>Amelin 90 Gornov 87</p>			<p>heavy-lepton⁰</p> <p>Burchat 90 Decamp 89E</p>
<p>He</p> <p>Antonchik 90B Baroni 90 Ransome 90 Takibaev 90 Sengupta 89B Andreva 88B Avdejchikov 88 Dobrovolsky 88 Otterlund 88 Burnett 87 Aivazyan 86 Aivazyan 86B Banaigs 86B Doerr 86 Kim 86C Redwine 86 Aggarwal 85B Alkhazov 85 Ananin 85 Dodge 85 Ghosh 85 Jain 85 Kristiansson 85 Lang 85B Ottermann 85 Segel 85 Velichko 85 Wang 85D Warner 85 Donoghue 84D</p>	<p>^3He Kobayashi 89C Wang 85D</p>	<p>$e^+ \nu_e \bar{\nu}$ Behrend 88C Gan 88 Mathis 88</p> <p>$l^+ \nu \bar{\nu}$ Adachi 89B</p> <p>$\mu^+ \nu_\mu \bar{\nu}$ Behrend 88C Gan 88 Mathis 88</p> <p>$\bar{\nu} 2\text{hadron (hadrons)}$ Kim 88D Sumiyoshi 88</p> <p>$\bar{\nu} c \bar{s}$ Albajar 89B Gan 88 Igarashi 87</p> <p>$\bar{\nu} q \bar{q}$ Behrend 88C Shirai 88 Amako 87 Yoshida 87</p> <p>$\bar{\nu} X$ Abe 88D</p> <p>$\pi^+ \bar{\nu}$ Mathis 88</p> <p>$\tau^+ \nu_\tau \bar{\nu}$ Behrend 88C</p>	<p>$\nu \bar{c} s$ Albajar 89B Gan 88 Igarashi 87</p> <p>$\nu q \bar{q}$ Behrend 88C Shirai 88 Amako 87 Yoshida 87</p> <p>νX Abe 88D</p> <p>π^- heavy-lepton⁰ Riles 89 Riles 89B</p> <p>$\pi^- \nu$ Mathis 88</p> <p>ρ^- heavy-lepton⁰ Riles 89 Riles 89B</p> <p>$\tau^- \nu_\tau \nu$ Behrend 88C</p>
<p>He*</p> <p>Ransome 90</p>			
<p>^3He</p> <p>Angelescu 90 Dalitz 90 Abdurakhimov 89C Adams 89 Kawakami 89 Mayer 89 Spahn 89 Argan 88</p>	<p>^5He Avdejchikov 86 Reesager 90</p>	<p>$\bar{\nu} q \bar{q}$ Behrend 88C Shirai 88 Amako 87 Yoshida 87</p> <p>$\bar{\nu} X$ Abe 88D</p> <p>$\pi^+ \bar{\nu}$ Mathis 88</p> <p>$\tau^+ \nu_\tau \bar{\nu}$ Behrend 88C</p>	<p>heavy-lepton⁰</p> <p>Burchat 90 Decamp 89E</p>

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

heavy-lepton⁰

heavy-lepton ⁰	
	Kim 89E Riles 89 Riles 89B Weinstein 89 Kamae 88 Wu 87 Perl 85
$e^- e^+$ neutral (neutrals)	Dorenbosch 86B
$e^- e^+ \nu_e$	Sakai 89 Shaw 89
$e^- q \bar{q}$	Sakai 89 Shaw 89
ℓ hadron (hadrons)	Akrawy 90I
$\ell^+ \ell^-$ (neutrals)	Behrend 88C
$\mu^+ e^-$ neutral (neutrals)	Dorenbosch 86B
$\mu^+ e^- \nu_\mu$	Gan 88
$\mu^+ e^- \nu_\tau \nu_\mu \bar{\nu}_e$	Gan 88
$\mu^- e^+$ neutral (neutrals)	Dorenbosch 86B
$\mu^- e^+ \nu_e$	Sakai 89 Shaw 89 Gan 88
$\mu^- \mu^+$ neutral (neutrals)	Dorenbosch 86B
$\mu^- \mu^+ \nu_\mu$	Mishra 87
$\mu^- \mu^+$	Maki 88
$\mu^- q \bar{q}$	Sakai 89 Shaw 89
$\mu^- X$	Mishra 87
$\nu_\mu X$	Mishra 87
$\pi^+ \mu^- + \pi^- \mu^+$	Allasia 85
$\tau^+ e^- \nu_\tau$	Sakai 89 Shaw 89
$\tau^+ \mu^- \nu_\tau$	Sakai 89 Shaw 89
$\tau^- \tau^+$	Maki 88

heavy-lepton⁰

heavy-lepton ⁰	
	Akrawy 90I Burchat 90 Decamp 89E Behrend 88C Perl 85
$e^+ q \bar{q}$	Sakai 89 Shaw 89
$e^- e^+ \bar{\nu}_e$	Sakai 89 Shaw 89
$\mu^+ e^- \bar{\nu}_e$	Sakai 89 Shaw 89 Gan 88
$\mu^+ q \bar{q}$	Sakai 89 Shaw 89
$\mu^- e^+ \bar{\nu}_\mu$	Gan 88
$\mu^- e^+ \bar{\nu}_\tau \bar{\nu}_\mu \nu_e$	Gan 88
$\tau^- e^+ \bar{\nu}_\tau$	Sakai 89 Shaw 89

heavy-lepton⁰

heavy-lepton ⁰	
$\tau^- \mu^+ \bar{\nu}_\tau$	Sakai 89 Shaw 89
heavy- ν	
$\mu^+ e^- \nu$	Ahrens 87B
$\mu^+ e^- X$	Ahrens 87B
$\mu^- e^+ \nu$	Ahrens 87B
$\mu^- e^+ X$	Ahrens 87B
heavy- ν_e	
$e^- e^+ \nu_e$	Bernardi 88 Bernardi 85
heavy- ν_μ	
$e^- e^+ \nu_\mu$	Daum 87
$\mu^- e^+ \nu_e$	Bernardi 88 Bernardi 85
$\mu^- \mu^+ \nu_\mu$	Coopersarkar 85
$\pi^+ \mu^-$	Coopersarkar 85
Hf	
	Kozma 90 Kozma 88
173Hf	
	Butsev 85
higgs	
	Abreu 90F Decamp 90H Komamiya 90 Franzini 87 Wu 87 Adeva 85 Albrecht 85L Rosner 85E
2 γ	Druzhinin 88
2hadron (hadrons)	Adachi 90C Decamp 89C Decamp 89H Bartel 85E Behrend 85
2higgs	Komamiya 89
2jet	Abreu 90C Akrawy 90J Akrawy 90N Decamp 90E
$\bar{b} b$	Decamp 90E
$\bar{c} c$	Abreu 90C
$e^\pm X$	Igarashi 87
$e^- e^+$	Barr 90B Auge 89B Davier 89 Decamp 89C Decamp 89H Egli 89 Gilman 89 Snyder 89 Baker 87
hadron ⁺ hadron ⁻	Decamp 89C Decamp 89H

higgs

higgs	
higgs hadron (hadrons)	Bartel 85E Behrend 85
jet X	Ashi 85D
$K^*(892)^+ K^-$	Alam 89
$K^*(892)^- K^+$	Alam 89
$K^*(892)^0 \bar{K}^*(892)^0$	Alam 89
$K^*(892)^0 \bar{K}^0$	Alam 89
$\bar{K}^*(892)^0 K^0$	Alam 89
$K^+ K^-$	Alam 89 Albrecht 89J Geer 89 Halling 89
$\mu^\pm X$	Igarashi 87
$\mu^- \mu^+$	Abe 89R Alam 89 Atiya 89 Decamp 89C Decamp 89H Geer 89 Gilman 89 Halling 89 Komamiya 89 Selen 89 Prokoshkin 87C Landsberg 85
$p \bar{p}$	Albrecht 89J
$\pi^+ \pi^-$	Abe 89R Alam 89 Albrecht 89J Geer 89 Halling 89 Druzhinin 88
$q \bar{q}$ higgs	Low 89
$q \bar{q}$	Low 89
$\tau^- \tau^+$	Abreu 90C Akrawy 90J Akrawy 90N Decamp 89C Decamp 89H Bartel 86D Albrecht 85C
higgs ⁺	
2jet X	Abrams 89F Kim 89E Wu 87
$c \bar{q}$	Ouldsaada 88B
$c \bar{s}$	Ouldsaada 88B Behrend 87C
$\tau^+ \nu_\tau$	Abreu 90 Akrawy 90D Decamp 90
	Abreu 90 Adachi 90C Akrawy 90D Decamp 90 Felcini 89 Ouldsaada 88B Behrend 87C
higgs [±]	
2hadron (hadrons)	Wu 87

higgs[±]

higgs [±]	
$\nu \tau^\pm$	Wu 87
higgs ⁻	
$\bar{c} q$	Abreu 90 Adachi 90C Abrams 89F Kim 89E Ouldsaada 88B Wu 87
$\bar{c} s$	Behrend 87C
$\tau^- \bar{\nu}_\tau$	Akrawy 90D Decamp 90
	Akrawy 90D Decamp 90 Felcini 89 Behrend 87C
higgsino	
Jet X	Abe 89F Kamae 88 Ansari 87D Behrend 87 Bartel 85E Behrend 85
	Sakai 90
htrack	
	Gill 90 Abduzhamilov 88C Barbier 88B Khan 88 Krasnov 88 Otterlund 88 Ramello 88 Shivpuri 88B Tret'yakova 88 Abdurazakova 87 Abduzhamilov 87 Fredriksson 87 Shivpuri 87B Ghosh 86 Judek 86
hypernucleus	
	Bartke 89 Campagnolle 89 Ameeva 87 Bocquet 87 Fredriksson 87 Bocquet 86 Dabrowski 86 Gal 86B Yamazaki 86 Batusov 85 Berrada 85 Milner 85B Yamazaki 85
nucleus p	Grace 85
hyperon	
	Bogolyubsky 88F Bolonkin 88 Bityukov 87 Bystriky 87 Landsberg 87 Bityukov 86B
hyperon	
	Bogolyubsky 88F
119 _I	
	Butsev 85
120 _I	
	Butsev 85

121I	$J/\psi(1S)$	$J/\psi(1S)$	$J/\psi(1S)$
Butsev 85	Bartke 89 Catanesi 89 Fulton 89 Halling 89 Kreinick 89 Maschmann 89 Miller 89 Nagy 89 Albajar 88D Albajar 88E Danilov 88 Tao 88 Thorndike 88 Albrecht 87G Baglin 87B Bebek 87B Fredriksson 87 Grab 87 Jani 87 Katsanevas 87 Prokoshkin 87C Baglin 86 Baglin 86B Barate 86C Louis 86 Bauer 85 Haas 85	$2K_S \pi^+ \pi^- 2\gamma$ Falvard 88 $2K_S \pi^+ \pi^0 \pi^-$ Augustin 88C Falva ' 88 $2K_S \pi^0 \gamma$ Toki 88B $2K_S$ Baltrusaitis 85E $2\omega \gamma$ Kopke 89 Mallik 89B Toki 88B Bisello 87 Toki 87 Augustin 85E Baltrusaitis 85G Rosner 85E Achasov 84F $2\phi \gamma X$ Chan 88 $2\phi \gamma$ Bisello 90 Kopke 89 Mallik 89B Augustin 88C Toki 88B Toki 87 Bisello 86 Bisello 86B Konigsmann 86 Augustin 85B Augustin 85D $2\pi^+ 2\pi^- 2\gamma$ Kopke 89 Baltrusaitis 86 $2\pi^+ 2\pi^- 5\gamma$ Baltrusaitis 86 $2\pi^+ 2\pi^- \gamma$ Kopke 89 Mallik 89B Augustin 88C Bisello 88 Mir 88 Stanco 88 Baltrusaitis 86 Baltrusaitis 86B Konigsmann 86 Toki 85B $2\pi^+ 2\pi^0 2\pi^- \gamma$ Augustin 85D $2\pi^+ 2\pi^0 2\pi^-$ Kopke 89 Augustin 88C Toki 87 $2\pi^+ \pi^0 2\pi^- 2\gamma$ Kopke 89 $2\pi^+ \pi^0 2\pi^- \gamma$ Kopke 89 Toki 87 $2\pi^+ \pi^0 2\pi^-$ Kopke 89 Mallik 89B Augustin 88B Augustin 88C Augustin 85D $2\pi^0 \gamma$ Hitlin 88 Toki 87 Konigsmann 86 Augustin 85D Augustin 85E Jeanmarie 85 Rosner 85E Toki 85B $2\rho \gamma$ Augustin 85E $2\rho^0 \gamma$ Bisello 89 Kopke 89 Mallik 89B Augustin 88C Toki 88B Toki 87	Baltrusaitis 86B Konigsmann 86 Rosner 85E Achasov 84F 3γ Kopke 89 Albrow 88 Augustin 88C Toki 87 Augustin 85 Augustin 85D $3\pi^+ 2\pi^0 3\pi^-$ Kopke 89 $3\pi^+ 3\pi^-$ Falvard 88 $0_0(980) \pi \gamma$ Toki 88B $0_0(980)^0 \rho^0$ Kopke 89 Mallik 89B $0_2(1320)^+ \rho^-$ Kopke 89 Augustin 88B $0_2(1320)^- \rho^+$ Kopke 89 Augustin 88B $0_2(1320)^0 \omega$ Mallik 89B $0_2(1320)^0 \rho^0$ Kopke 89 Mallik 89B Augustin 88B $b_1(1235)^+ \pi^-$ Augustin 88B $b_1(1235)^- \pi^+$ Augustin 88B $b_1(1235)^0 \omega$ Mallik 89B $b_1(1235)^0 \pi^0$ Augustin 88B $\Delta(1232 F_{33})^{++}$ $\bar{\Delta}(1232 F_{33})^{--}$ Kopke 89 $e^- e^+$ Kopke 89 Mir 89 Schubert 89 Schindler 88 Baglin 87C Chiang 86 Albrecht 85K $\eta 2\pi \gamma$ Augustin 85E $\eta 2\pi^+ 2\pi^-$ Toki 87 Baltrusaitis 85F $\eta 2\pi^+ \pi^0 2\pi^-$ Toki 87 Baltrusaitis 85F $\eta \gamma$ Kopke 89 Ajaltouni 88 Augustin 88C Toki 87 Lee 85B $\eta \pi^+ \pi^- \gamma$ Augustin 88C Toki 88 Toki 88B Toki 87 Baltrusaitis 86 Konigsmann 86 Stockhausen 86 Odlan 85 $\eta \pi^+ \pi^-$ Toki 87 Augustin 85C Baltrusaitis 85F $\eta \pi^+ \pi^0 \pi^-$ Mallik 89B
125I	Ejiri 89		
127I	126I dibaryon($S = -2$) γ Ejiri 89 126Te dibaryon($S = -2$) e^+ ν_e Ejiri 89		
116In^*	Arakelyan 90 Butsev 85		
inelastic	Amos 90 Baroni 90 Kozma 90 Andersen 89 Avakyan 89B Avakyan 89C Bartke 89 Dubar 89 Efimov 89 Glagolev 89 Gulkanyan 89 Khan 89 Kobayashi 89 Kobayashi 89C Kuzichev 89 London 89 Paoletti 89 Romano 89 Sengupta 89B Abe 88 Afanasyev 88 Bakatanov 88 Balestra 88 Bamberger 88B Barbier 88B Barnes 88 Batskovich 88 Grigalashvili 88 Kozma 88 Pugh 88 Ramello 88 Salvini 88 Sedlak 88 Singh 88 Tanihata 88 Batyunya 87 Bogolyubsky 87E Bystricky 87 Fredriksson 87 Prokoshkin 87C Ainer 86 Anikina 86D Balestra 86B Batyunya 86B Judek 86 Marx 86 Ohashi 86 Schmickler 86 Ward 86B Alibekov 85 Ainer 85C Avakyan 85C Avakyan 85D Avakyan 85E Batyunya 85D Borisov 85D Chakrabarti 85 Gachurin 85 Geichgimbel 85 Kanevsky 85 Kopp 85 Seth 85 Tanihata 85 Balestra 84	$2\eta \gamma$ Kopke 89 Augustin 88C Diekmann 88 Hitlin 88 Toki 87 Konigsmann 86 Augustin 85E Lee 85B $2f_2(1270) \gamma$ Mallik 89B Augustin 88C Mir 88 2hadron (hadrons) Augustin 85C $2K^+ 2K^- \gamma$ Mallik 89B Augustin 88C Bisello 86 Bisello 86B Augustin 85 Augustin 88C Falvard 88 Toki 87 $2K^+ K_S K^- \pi^-$ Falvard 88 $2kaon \omega \pi$ Stockhausen 86 $2kaon \pi$ Konigsmann 86 $2K_S \gamma$ Kopke 89 Mallik 89B Augustin 88C Hitlin 88 Toki 88 Toki 88B Toki 87 Konigsmann 86 Augustin 85B Augustin 85D Augustin 85E Jeanmarie 85 Rosner 85E Toki 85B $2K_S \omega$ Augustin 88C Falvard 88 $2K_S \phi$ Augustin 88C Falvard 88 Augustin 85C Augustin 85D Augustin 85E	
166Ir	Butsev 85		

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

J/ψ(1S)	J/ψ(1S)	J/ψ(1S)	J/ψ(1S)
Toki 87	$f_1(1420) \gamma$	Toki 88B	$K^+(892)^+ K^-$
Baltrusaitis 85F	Toki 87	Kopke 89	$K^+ K^- \phi \gamma$
$\eta(1295) \gamma$	$f_1(1420) \phi$	Joussel 88	Bisello 86
Coffman 89	Becker 87C	Baltrusaitis 85F	Bisello 86B
Stanco 88	$f_1(1510) \gamma$	$K^*(892)^- K^+ \phi$	Becker 87C
Augustin 88C	Toki 88B	Falvard 88	Augustin 85C
Stanco 88	$f_2(1270) \gamma$	$K^*(892)^- K^+$	$K^+ K \phi$
Toki 88	Kopke 89	Kopke 89	Lockman 89
Toki 88B	Mallik 89B	Joussel 88	Augustin 88C
Toki 87	Ajaltpouni 88	Baltrusaitis 85F	Diekmann 88
Richman 85	Augustin 87	$K^*(892)^0 K^*(892)^0 \gamma$	Falvard 88
Tsukerman 85B	Baltrusaitis 87	Mallik 89B	Stockhausen 86
	Toki 87	Toki 88	Augustin 85B
$\eta(1440) \omega$	$f_2(1270) \omega$	Toki 88B	Augustin 85C
Becker 87C	ω	$K^*(892)^0 \bar{K}^0 + K^*(892)^0 K^0$	Augustin 85D
$\eta(1440) \phi$	Mallik 89B	Augustin 88C	Augustin 85E
Falvard 88	Augustin 88B	Coffman 88	Jeanmarie 85
Becker 87C	Falvard 88	Blir 88	$\pi^- 2\gamma$
$\eta_c(1S) \gamma$	$f_2(1270) \phi$	$K^*(892)^0 \bar{K}$	Kopke 89
Kopke 89	Kopke 89	Kopke 89	Augustin 88C
Mallik 89B	Falvard 88	Joussel 88	Falvard 88
Adler 88D	$f_2(1270) \rho^0$	Baltrusaitis 85F	$K^+ K^- \pi^+ \pi^- \gamma$
Ajaltpouni 88	Mallik 89B	$K^*(892) K^+ + K^*(892) \bar{K} \gamma$	Kopke 89
Augustin 88C	Kopke 89	Toki 88B	Augustin 88C
Bisello 86	$f_2(1720) \gamma$	$K^*(892) K^0$	Toki 88
Augustin 85D	Mallik 89B	Toki 87	Baltrusaitis 86
Gaiser 85	Ajaltpouni 88	Kopke 89	π^-
	Augustin 88	Joussel 88	Falvard 88
$\eta' \eta \gamma$	Augustin 88C	Baltrusaitis 85F	$K^+ K^- \pi^+ \pi^-$
Augustin 88C	Toki 87	Falvard 88	Kopke 89
$\eta' \gamma$	$f_2(1720) \phi$	Augustin 88C	Augustin 88C
Kopke 89	Augustin 88C	Falvard 88	Toki 88B
Ajaltpouni 88	Toki 87	$K^+ K^- 2\eta$	Toki 87
Augustin 88C	$f_2'(1525) \gamma$	$K^+ K^- 2\text{neutral (neutrals)}$	Augustin 85B
Toki 87	Kopke 89	Toki 87	Augustin 85D
Lee 85B	Mallik 89B	$K^+ K^- 2\pi^+ 2\pi^-$	Augustin 85D
	Augustin 88	Falvard 88	Jeanmarie 85
$\eta' \omega$	Augustin 88C	$K^+ K^- 3\gamma$	Richman 85
Kopke 89	Baltrusaitis 87	Baltrusaitis 86	$K^+ K^- \pi^0$
Ajaltpouni 88B	Toki 87	Toki 87	Kopke 89
Augustin 88C	$f_2'(1525) \omega$	Baltrusaitis 85F	Augustin 88C
Coffman 88	Kopke 89	Baltrusaitis 85F	Toki 87
Joussel 88	Falvard 88	Toki 87	Augustin 85E
Mir 88	$f_2'(1525) \phi$	Baltrusaitis 85F	Baltrusaitis 85F
Toki 87	Kopke 89	$K^+ K^- \eta$	$K^+ K^- \rho^0 \gamma$
Baltrusaitis 85F	Mallik 89B	Toki 87	Toki 87
$\eta' \pi^+ \pi^- \gamma$	Falvard 88	$K^+ K^- \gamma$	Baltrusaitis 85F
Toki 87	$f_4(2220) \gamma$	Kopke 89	$K^+ K^- X$
$\eta' \rho^0$	Mallik 89B	Augustin 88C	Augustin 85B
Kopke 89	Mallik 89B	Augustin 88C	$K^+ K^-$
Ajaltpouni 88B	Mallik 89B	Augustin 88C	Augustin 85C
Augustin 88C	Mallik 89B	Augustin 88C	Baltrusaitis 85E
Coffman 88	Mallik 89B	Augustin 85B	$K^+ \bar{K}^0 \omega \pi^-$
Joussel 88	Mallik 89B	Augustin 85B	Kopke 89
Mir 88	Mallik 89B	Augustin 85D	$K^+ K_S K_L K^- \gamma$
Toki 87	Mallik 89B	Augustin 85E	Bisello 90
Toki 87	Mallik 89B	Jeanmarie 85	Mallik 89B
Baltrusaitis 85F	Mallik 89B	Augustin 88C	Augustin 88C
$f_0(975) \gamma$	γ glueball	Augustin 85	$K^+ K_S \omega \pi^-$
Mallik 89B	γX	Augustin 85B	Becker 87C
$f_0(975) \omega$	Kopke 89	Augustin 85D	$K^+ K_S \phi \pi^- + K_S K^- \phi \pi^+$
Kopke 89	Kopke 89	Augustin 85E	Stockhausen 86
Lockman 89	Gaiser 85	Jeanmarie 85	$K^+ K_S \phi \pi$
Augustin 88B	Kopke 89	Oadian 85	Falvard 88
Falvard 88	Kopke 89	Rosner 85E	Becker 87C
$f_0(975) X$	$K \bar{K} \phi \pi$	Toki 85B	Falvard 88
Kopke 89	$K^*(892) \bar{K}$	$K^+ K^- \omega \pi^0$	$2\pi^-$
$f_1(1285) \gamma$	Toki 87	Kopke 89	Falvard 88
Coffman 89	$K^*(892)^+ K^*(892)^-$	Becker 87C	$K^+ K_S \pi^- + K_S K^- \pi^+$
Mallik 89B	Kopke 89	Augustin 85C	Augustin 85E
Adler 88D	$K^*(892)^+ K^- +$	$K^+ K^- \omega$	$\gamma + K_S K^- \pi^+ \gamma$
Augustin 88C	$K^*(892)^- K^+$	Kopke 89	Konigsmann 86
Mir 88	Augustin 88C	Augustin 88C	Stockhausen 86
Stanco 88	Coffman 88	Diekmann 88	Augustin 85
Toki 88B	Mir 88	Falvard 88	Augustin 85B
Becker 87C	$K^*(892)^+ K^- \phi$	Stockhausen 86	Augustin 85D
Becker 87C	Falvard 88	$K^+ K^- \phi + \phi \pi^+ \pi^-$	Jeanmarie 85
		Augustin 85D	Richman 85

$J/\psi(1S)$

$J/\psi(1S)$

$J/\psi(1S)$	$J/\psi(1S)$	$J/\psi(1S)$	$J/\psi(1S)$
$K^+ K_S \pi^- \gamma$ Szklarz 89 Augustin 88C Stanco 88 Toki 88B Toki 87	$\Lambda \bar{\Sigma}^- \pi^+$ Kopke 89 Henrard 87	$\omega \pi^0$ Kopke 89 Ajaltouni 88B Augustin 88C Coffman 88 Jousset 88 Mir 88 Toki 87 Baltrusaitis 85F	Coffman 88 Jousset 88 Mir 88 Toki 87 Baltrusaitis 85F
$K^+ K_S \pi^-$ Kopke 89 Augustin 88C Toki 87 Baltrusaitis 85F	$\Lambda \bar{\Sigma}^0$ Kopke 89 Henrard 87	ωX Kopke 89	$\phi f_0(975)$ Kopke 89 Lockman 89 Falvard 88
$K^+ X$ Kopke 89	$\bar{\Lambda} \Sigma^0$ Kopke 89 Henrard 87	$p \bar{\Lambda} K^-$ Kopke 89	$\phi \omega \gamma$ Mallik 89B Toki 87
$K^\pm K_S \pi^\pm \gamma$ Oadian 85	meson $^0 \gamma$ Bisello 90 Mallik 89B Augustin 88 Augustin 88C Stanco 88 Toki 88 Toki 88B Bisello 87 Toki 87	$p \bar{n} \pi^-$ Kopke 89	$\phi \pi^+ \pi^-$ Kopke 89 Lockman 89 Falvard 88 Stockhausen 86 Augustin 85C Augustin 85D Jeanmarie 85
$K^- X$ Kopke 89	$\mu^- \mu^+$ Kartik 90 Liss 90 Mishra 90 Baglin 89 De 89 Kopke 89 London 89 Mir 89 Schubert 89 Sonderegger 89 Albajar 88C Bussiere 88 Ferrarotto 88 Schindler 88 Wormser 88 Biino 87 Alam 86 Barate 86B Sokoloff 86 Albrecht 85K Badier 85D Budd 85 Aubert 84C	$p \bar{p} \eta$ Kopke 89	$\phi \pi^0$ Kopke 89 Augustin 88C Coffman 88 Mir 88 Toki 87 Baltrusaitis 85F
$K^0 K^- \omega \pi^+$ Kopke 89	$n \bar{n}$ Kopke 89	$p \bar{p} \eta'$ Kopke 89	$\pi^+ 2\pi^0 \pi^- \gamma$ Baltrusaitis 86B
$K^0 \bar{K}^0 \omega \pi^0$ Kopke 89	$n \bar{p} \pi^+$ Kopke 89	$p \bar{p} \gamma$ Kopke 89 Toki 87 Baltrusaitis 86	$\pi^+ 2\pi^0 \pi^-$ Kopke 89 Augustin 88C Toki 87 Baltrusaitis 85F
$K^0 \bar{K}^0 \omega$ Kopke 89 Falvard 88	$\omega 2\gamma$ Augustin 85C	$p \bar{p} K^+ K^-$ Falvard 88	$\pi^+ C(1480)^-$ Falvard 88
$K_S^*(1430)^+ K^*(892)^-$ Kopke 89	$\omega 2\pi^+ 2\pi^-$ Kopke 89	$p \bar{p} \omega$ Kopke 89	$\pi^+ \pi^- 2\gamma$ Kopke 89 Toki 88 Toki 88B Toki 87 Konigsmann 86 Richman 85
$K_S^*(1430)^- K^*(892)^+$ Kopke 89	$\omega 2\pi^0$ Kopke 89 Augustin 88B	$p \bar{p} \phi$ Kopke 89 Falvard 88	$\pi^+ \pi^- 3\gamma$ Toki 88 Toki 88B Toki 87 Baltrusaitis 86
$K_S^*(1430)^0 \bar{K}^*(892)^0$ Kopke 89	$\omega \eta \pi^+ \pi^-$ Kopke 89 Stockhausen 86	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^- \gamma$ Mallik 89B Augustin 88C Diekmann 88 Hitlin 88 Toki 88 Toki 88B Augustin 87 Baltrusaitis 87 Toki 87 Konigsmann 86 Stockhausen 86 Augustin 85B Augustin 85D Augustin 85E Oadian 85
$\bar{K}_S^*(1430)^0 K^*(892)^0$ Kopke 89	$\omega \eta$ Kopke 89 Ajaltouni 88B Augustin 88C Coffman 88 Jousset 88 Mir 88 Toki 87 Baltrusaitis 85F	$p \bar{p} \rho^0$ Kopke 89	$\pi^+ \pi^- X$ Kopke 89 Augustin 85B
$K_S 0\gamma X$ Augustin 85C	$\omega \pi^+ \pi^-$ Kopke 89 Augustin 88C Coffman 88 Jousset 88 Mir 88 Toki 87 Baltrusaitis 85F	$p \bar{p} X$ Kopke 89 Pallin 87 Augustin 85B Augustin 85C Augustin 85D Jeanmarie 85 Kopke 89	$\pi^+ \pi^-$ Kopke 89 Augustin 85C Baltrusaitis 85E
$K_S 2\gamma X$ Augustin 85C	$\omega \pi^+ \pi^- \gamma$ Augustin 85C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^- 2\gamma$ Kopke 89 Augustin 88C Augustin 85C
$K_S 3\gamma X$ Augustin 85C	$\omega \pi^+ \pi^-$ Kopke 89 Lockman 89 Augustin 88B Augustin 88C Stockhausen 86 Augustin 85C Augustin 85D Jeanmarie 85	$p \bar{p} \rho^0$ Kopke 89	$\pi^+ \pi^0 \pi^- \gamma$ Toki 87
$K_S 4\gamma X$ Augustin 85C	$\omega \pi^+ \pi^-$ Kopke 89 Augustin 88B Augustin 88C Stockhausen 86 Augustin 85C Augustin 85D Jeanmarie 85	$p \bar{p} X$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S 8\gamma X$ Augustin 85C	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S \gamma X$ Augustin 85C	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S K^- 2\pi^+ \pi^-$ Falvard 88	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S K^- \omega \pi^+$ Becker 87C	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S K^- \phi \pi^+$ Falvard 88 Becker 87C	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S K^- \pi^+ \gamma$ Szklarz 89 Augustin 88C Stanco 88 Toki 87	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S K^- \pi^+$ Kopke 89 Augustin 88C Toki 87 Baltrusaitis 85F	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$K_S K_L$ Kopke 89 Augustin 85C Baltrusaitis 85E	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$\Lambda \bar{\Lambda} \gamma$ Henrard 87	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$\Lambda \bar{\Lambda} \pi^0$ Kopke 89 Henrard 87	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$\Lambda \bar{\Lambda}$ Kopke 89 Tixier 88 Pallin 87 Augustin 85B Augustin 85C Augustin 85D Jeanmarie 85	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F
$\Lambda \bar{\Sigma}^+ \pi^-$ Kopke 89 Henrard 87	$\omega \eta'$ Kopke 89 Ajaltouni 88B Augustin 88C	$p \bar{p} \pi^0$ Kopke 89	$\pi^+ \pi^0 \pi^-$ Kopke 89 Augustin 88C Coffman 88 Toki 87 Baltrusaitis 85F

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

$J/\psi(1S)$

$J/\psi(1S)$	
$\pi^+ X$	Kopke 89
$\pi^- C(1480)^+$	Falvard 88
$\pi^- X$	Kopke 89
$\pi^0 \gamma$	Kopke 89 Ajaltouni 88 Augustin 88C Toki 87
$\rho \pi$	Mir 88 Toki 87
$\rho^+ \pi^-$	Kopke 89 Toki 89 Coffman 88 Baltrusaitis 85F
$\rho^+ \rho^- \gamma$	Bisello 89 Toki 88B Toki 87 Baltrusaitis 86B
$\rho^+ \rho^-$	Kopke 89
$\rho^+ \rho^0 \pi^- + \rho^0 \rho^- \pi^+$	Augustin 85C Augustin 85D
$\rho^+ \rho^0 \pi^-$	Augustin 88B
$\rho^- \pi^+$	Kopke 89 Toki 89 Coffman 88 Baltrusaitis 85F
$\rho^0 2\gamma$	Coffman 89 Toki 88 Toki 88B Toki 87 Augustin 85D Jeanmarie 85 Roser 85E Achasov 84F
$\rho^0 \eta$	Kopke 89 Ajaltouni 88B Augustin 88C Coffman 88 Jousset 88 Mir 88 Toki 87 Baltrusaitis 85F
$\rho^0 \pi^+ \pi^- \gamma$	Augustin 88C
$\rho^0 \pi^+ \pi^0 \pi^- \gamma$	Toki 87 Baltrusaitis 85F
$\rho^0 \pi^0$	Kopke 89 Toki 89 Ajaltouni 88B Augustin 88C Coffman 88 Jousset 88
$\rho^0 \rho^- \pi^+$	Augustin 88B
$\rho^0 X$	Kopke 89
$\rho_s(1690)^0 \gamma$	Baltrusaitis 85G
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$\Sigma(1385 P_{13})^- \Sigma(1385 P_{13})^+$	Kopke 89 Henrard 87
$\Sigma^+ \Xi(1385 P_{13})^-$	Kopke 89

$J/\psi(1S)$	
$\Sigma^- \Sigma(1385 P_{13})^+$	Kopke 89
$\Sigma^0 \Sigma^0$	Kopke 89 Pallin 87
$\Sigma^+ \Sigma(1385 P_{13})^-$	Henrard 87
$\Sigma^- \Sigma(1385 P_{13})^+$	Henrard 87
$X(1700) \omega$	Falvard 88
$X(1700) \phi$	Falvard 88
$\Xi^- \Xi(1530 P_{13})^+$	Kopke 89
$\Xi^- \Xi^+$	Kopke 89 Henrard 87
$\Xi^+ \Xi(1530 P_{13})^-$	Kopke 89 Henrard 87
$\Xi^0 \Xi(1530 P_{13})^0$	Kopke 89 Henrard 87

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Mukherjee 86	
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Roberts 86	
Rubbia 86	
Sheldon 86	
Stubenrauch 86	
Sugano 86	
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Akerlof 85	
Althoff 85F	
Appel 85	
Appel 85B	
Appel 85C	

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Arenton 85B	
Arnisson 85B	
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Arnisson 85E	
Ash 85D	
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Behrend 85	
Berger 85	
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2charged (charged)	Bodek 89
(neutrals)	Bonesini 89B
2charged+ X	Akesson 87E
2charged- X	Akesson 87E
2hadron (hadrons)	Bodek 89
	Braunschweig 89H
	Kim 89C
	Maki 88
	Albajar 87D
	Baldin 86B
	Bartel 85H
2$\pi^+ X$	Akesson 87E
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3$\pi^+ X$	Akesson 87E
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D*(2010)⁺ X	Albajar 90D
D*(2010)⁻ X	Albajar 90D
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hadron X	Bodek 89
	Geer 89
	Kim 89C
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	Arneodo 87
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jet

$K^*(892)^0$

jet	$K^*(892)$	$K^*(892)^+$	$K^*(892)^-$
hadron ⁻ X $K^*(892)^0$ X $\bar{K}^*(892)^0$ X K^+ charged X K^+ π^+ X K^+ X K^- charged X $K^- \pi^-$ X K_S charged (neutrals) K_S mult[charged] (neutrals) Λ mult[charged] (neutrals) + $\bar{\Lambda}$ mult[charged] (neutrals) μ^+ X μ^- X mult[charged] (neutrals) mult[charged] X neutral X p X + \bar{p} X p X π (π 's) π^+ charged X π^+ X ρ^0 X	$K \pi$ $K^*(892)^+$ Toki 87 Bai 90 Barlag 90C Chliapnikov 90 Abachi 89B Adler 89E Albrecht 89S Alder 89 Avery 89B Behrend 89F Browder 89 Chen 89B Danilov 89 Halling 89 Hayes 89 Hirata 89B Kopke 89 Landsberg 89 Mattig 89 Miller 89 Schindler 89 Schubert 89 Toki 89B Aleev 88 Barlag 88C Barloutaud 88 Bourdarios 88 Coffman 88 Falvard 88 Gan 88 Jousset 88 Levy 88 Mir 88 Thorndike 88 Toki 88B Abachi 87B Avery 87 Barloutaud 87 Brient 87 Cumalat 87 Aihara 86I Ajinenko 86B Bailey 86B Baltrusaitis 86C Bituykov 86B Haines 86 Tomaradze 86 Aleev 85 Aleshin 85 Aston 85 Baltrusaitis 85F Behrends 85 Blewitt 85 Coward 85 Knyazev 85 Park 85B Schindler 85 Ajinenko 84C	$K^*(892)^+$ Babintsev 88 Sedlak 88 Tschirhart 88 Karnaukhov 87 Lamm 87 Naroska 87 Mikocki 86 Ronjin 86 Allasia 85D Aziz 85C Ajinenko 83B $K^*(892)^{\pm}$ Marshall 89 Babintsev 88 $K^*(892)^-$ Bai 90 Chliapnikov 90 Albrecht 89S Alder 89 Avery 89B Behrend 89F Chen 89B Halling 89 Hayes 89 Hayes 89B Kopke 89 Kreinick 89 Landsberg 89 Mattig 89 Miller 89 Riles 89 Aleev 88 Aston 88F Barlag 88C Bogolyubsky 88F Coffman 88 Falvard 88 Gan 88 Jousset 88 Levy 88 Mir 88 Thorndike 88 Toki 88B Abachi 87B Avery 87 Schindler 85 $K^- \gamma$ Landsberg 86 $K^- \pi^0$ Agababayan 89 Aguilarbenit 89 Bergner 89 Albrecht 88N $K^0 \pi^+$ Druts koy 89 Gerdyukov 87 Gerdyukov 86B $K_S \pi^+$ Alan 89 Albrecht 89L Albrecht 89L Bergner 89 Aihara 88D Albrecht 88E Albrecht 88N Albrecht 88N Albrecht 88O Augustin 88C Sedlak 88 Tschirhart 88	$K^*(892)^-$ Adler 87 Aihara 87G Karnaukhov 87 Lamm 87 Naroska 87 Mikocki 86 Ronjin 86 Yelton 86 Allasia 85D Aziz 85C Ajinenko 83B $K^*(892)^0$ Armstrong 90 Bai 90 Barlag 90C Chliapnikov 90 Adler 89B Albrecht 89S Alder 89 Avery 89B Chen 89B Danilov 89 Halling 89 Jensen 89 Kopke 89 Landsberg 89 Mallik 89B Marshall 89 Mattig 89 Rath 89 Schubert 89 Adler 88F Anjos 88C Anjos 88E Anjos 88G Aston 88 Barlag 88C Barloutaud 88 Bourdarios 88 Coffman 88 Gan 88 Jousset 88 Levy 88 Mir 88 Thorndike 88 Toki 88 Toki 88B Albrecht 87G Avery 87 Barloutaud 87 Brient 87 Cumalat 87 Gittelmann 87 Hofmann 87B Kolanoski 87 Schindler 87 Alam 86 Baltrusaitis 86 Aihara 85D Aston 85 Atkinson 85B Atkinson 85F Baltrusaitis 85B Baltrusaitis 85F Behrends 85 Coward 85 Knyazev 85 Park 85B Schindler 85 Torres 85 $3\pi^0$ $K^+ \pi^-$ Hirata 89B Akimenko 90C Bortoletto 90 Abachi 89D Alan 89 Albrecht 89L Aihara 88D Albrecht 88E Albrecht 88N Albrecht 88O Augustin 88C Babintsev 88 Sedlak 88 Tschirhart 88
$K^*(1370)^+$ K^+ γ $K^0 \pi^+$	Landsberg 86 Druts koy 89		
$K^*(1370)^-$ $K^- \gamma$ $K^0 \pi^-$	Landsberg 86 Bird 88		
$K^*(1680)^+$ $K_S \pi^+$	Albrecht 89L		
$K^*(1680)^-$ $K^0 \pi^-$ $K_S \pi^-$	Bird 88 Albrecht 89L		
$K^*(1680)^0$ $K^+ \pi^-$	Albrecht 89L		
$K^*(892)$	Efendiev 89 Sklarz 89 Singhara 89B Toki 88B Aston 86B Tsukerman 85B		

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

$K^*(892)^0$

$K^*(892)^0$	Chen 89C Aihara 88 Albrecht 88E Augustin 88C Edberg 88 Sedlak 88 Adamus 87 Ajinenko 87B Albrecht 87S Ammosov 87 Palka 87 Palka 87B Raab 87 Althoff 86D Ammosov 86D Armstrong 86D Karnaukhov 86 Toki 86 Aihara 85 Derrick 85F
$K^- \pi^+$	Albrecht 89L
$K_L \gamma$	Carlsmith 86
$K_S \pi^0$	Berger 89
$\pi^- \mu^+ \nu_\mu$	Hirata 89B
$K^*(\text{unspec})$	Wu 87
$K^*(\text{unspec})^+$	
$K^+ \pi^+ \pi^-$	Karnaukhov 87
$K^*(\text{unspec})^-$	
$K^- \pi^+ \pi^-$	Karnaukhov 87
$K^*(\text{unspec})^0$	
$K^+ \pi^+ 2\pi^-$	Karnaukhov 87
$K^*(1370)^0$	
$K^*(892)^- \pi^+$	Aston 88I Aston 86B
$K^*(892)^0 \pi^0$	Aston 86B
$K^- \pi^+$	Aston 88I
$K^0 \pi^+ \pi^-$	Aston 88I Aston 86B
$K^0 \rho^0$	Aston 88I
$K^*(1680)^0$	
$K^*(892)^- \pi^+$	Aston 88I Aston 86B
$\bar{K}^*(892)^0 \pi^0$	Aston 86B
$K^- \pi^+$	Albrecht 89L Aston 88I
$K^0 \pi^+ \pi^-$	Aston 88I Aston 86B
$K^0 \rho^0$	Aston 88I Aston 86B
$K^*(892)$	
$K^- \pi^+$	Toki 88B Aston 86B Aston 85 Teukerman 85B Adler 89D

 $K^*(892)$

$\bar{K} \pi$	Toki 87
$K^*(892)^0$	Anjos 90 Armstrong 90 Bai 90 Barlag 90C Chliapnikov 90 Adler 89B Albrecht 89S Alder 89 Avery 89B Browder 89 Chen 89B Dejongh 89 Halling 89 Jensen 89 Klein 89C Kopke 89 Kreimick 89 Landsberg 89 Mallik 89B Marshall 89 Miller 89 Pitman 89 Schindler 89 Schubert 89 Toki 89B Adler 88F Albrecht 88S Anjos 88C Anjos 88E Anjos 88G Aston 86 Barlag 88C Batusov 88C Coffman 88 Gan 88 Jousset 88 Levy 88 Mir 88 Schindler 88 Thorndike 88 Toki 88 Toki 88B Albrecht 87C Albrecht 87G Avery 87 Bebek 87E Brient 87 Kolanoski 87 Luth 87 Schindler 87 Albrecht 86F Baltrusaitis 86 Banerjee 86 Haines 86 Schindler 86 Aihara 85 Aihara 85D Albrecht 85M Aston 85 Atkinson 85B Baltrusaitis 85B Baltrusaitis 85F Behrends 85 Biagi 85 Cowara 85 Schindler 85
$K^+ \pi^-$	Alvarez 90C Anjos 90B Barlag 90 Abachi 89D Adler 89E Agababyan 89 Aguilarbenit 89 Alam 89 Aston 89B Breakstone 89
$K^- \pi^+$	Albrecht 89L

 $\bar{K}^*(892)^0$

$\bar{K}^*(892)^0$	Chen 89C Aihara 88 Albrecht 88E Aston 88B Aston 88I Augustin 88C Sedlak 88 Adamus 87 Adler 87 Ajinenko 87B Albrecht 87S Anjos 87C Palka 87 Palka 87B Raab 87 Alam 86 Althoff 86D Armstrong 86D Aston 86 Aston 86B Toki 86 Derrick 85F Jawahery 85
$K^*(\text{unspec})^0$	
$K^- 2\pi^+ \pi^-$	Karnaukhov 87
$K^- \pi^+$	Aston 86
K^+	
$2\pi^+ \pi^- \gamma$	Barmin 89B
$2\pi^+ \pi^-$	Phillips 89 Tanimori 89B Ansgore 88 Barmin 86
$2\pi^0 e^+ \nu_e$	Barmin 88B
$e^+ \nu_e$	Bernardi 88 Bernardi 85
$\mu^+ \nu_\mu \gamma$	Demidov 89 Numao 89 Barmin 87 Akiba 85
$\mu^+ \nu_\mu$	Phillips 89 Tanimori 89B Ansgore 88 Bernardi 88 Bernardi 85 Yamanaka 85
$\mu^- 2\mu^+ \nu_\mu$	Atiya 89 Littenberg 89 Selen 89
$\pi^+ 2\pi^0$	Tanimori 89B
π^+ axion	Baker 87
$\pi^+ e^- e^+$	Gilman 89 Littenberg 89 Lubatti 89 Baker 87
π^+ higgs	Atiya 89 Gilman 89 Selen 89 Baker 87
$\pi^+ \mu^+ e^-$	Gilman 89 Littenberg 89 Lubatti 89 Campagnari 88
$\pi^+ \mu^- \mu^+$	Atiya 89 Gilman 89 Littenberg 89 Selen 89

 K^+

$\pi^+ \nu \bar{\nu}$	Atiya 90 Littenberg 89 Numao 89
$\pi^+ \nu_e \bar{\nu}_e$	Gilman 89
$\pi^+ \pi^0$	Phillips 89 Tanimori 89B Ansgore 88 Campagnari 88 Landsberg 85
$\pi^0 e^+ \nu_e$	Tanimori 89B Barmin 86
$\pi^0 \mu^+ \nu_\mu$	Phillips 89 Tanimori 89B
\bar{K}^-	
$2\pi^0 e^- \bar{\nu}_e$	Bolotov 85B
$2\pi^0 \pi^- \gamma$	Bolotov 85C
$2\pi^0 \pi^-$	Bolotov 85
$3\pi^0 e^- \bar{\nu}_e$	Bolotov 88
$\pi^+ 2\pi^-$	Ansgore 88
$\pi^- 2\gamma$	Bolotov 86
$\pi^- 3\gamma$	Bolotov 87
$\pi^- 4\gamma$	Bolotov 86
$\pi^0 e^- \bar{\nu}_e \gamma$	Bolotov 85B
$\pi^0 e^- \bar{\nu}_e$	Bolotov 88
$\pi^0 \pi^- \gamma$	Bolotov 86B
$\pi^0 \pi^-$	Ansgore 88 Bolotov 86
K^0	
$2\pi^0$	Hirata 89B
$e^- e^+$	Barmin 86B
$\pi^+ \pi^-$	Adler 89B Adler 89C Hirata 89B Aleev 88B
$K_0^*(1950)^-$	Bird 88
$\bar{K}_0^* \pi^-$	
$\bar{K}_0^*(1430)^0$	
$K^- \pi^+$	Aston 88B Aston 88I
$\bar{K}_0^*(1950)^0$	Aston 88I
$K_1(1270)^+$	
$K^+ \rho^0$	Albrecht 89L
$K_1(1270)^-$	
$K^- \pi^+ \pi^-$	Adler 89D Browder 89
$K^- \rho^0$	Adler 89E Dejongh 89
$K^- \rho^0$	Albrecht 89L

$K_L(1270)^0$

K_L

$K_1(1270)^0$ $K_S \rho^0$ Albrecht 89L	$K_2^*(1430)^-$ Babintsev 88 Sedlak 88	$\bar{K}_3^*(1780)^0$ $\bar{K}^*(892)^0 \pi^0$ Aston 86B	^{40}KK Hasinoff 89 Hasinoff 88
$K_1(1400)^+$ Albrecht 89S $K^*(892)^0 \pi^+$ Albrecht 89L Albrecht 88E	$K_2^*(1430)^0$ $K^+ \pi^-$ Albrecht 89S Kopke 89 Mattig 89 Armstrong 86D Atkinson 85B	$K^- \pi^+$ Aston 89B Albrecht 88E Aston 88B Aston 88I Aston 86 Aston 86B	^{42}KK Kozma 88B Kozma 86 Wagner 85
$K_1(1400)^-$ Albrecht 89S Browder 89 $\bar{K}^*(892)^0 \pi^-$ Albrecht 89L Albrecht 88E $K^- \pi^+ \pi^-$ Adler 89E Dejongh 89	$K_L \gamma$ $K_S \pi^0$ Carlsmith 87 Carlsmith 87	$\bar{K}^0 \pi^+ \pi^-$ Aston 88I Aston 86B	^{43}KK Kozma 88B Kozma 86 Michel 85
$K_1(1400)^0$ $K^*(892)^+ \pi^-$ Albrecht 89S Albrecht 89L Albrecht 88E	$K_2^*(1430)^0$ Albrecht 89S Kopke 89 Atkinson 85B	$\bar{K}^0 \rho^0$ Aston 88I Aston 87B Aston 86B	^{47}KK Ohkubo 85
$\bar{K}_1(1270)^0$ $\bar{K}^0 \pi^+ \pi^-$ Browder 89 $K_S \pi^+ \pi^-$ Adler 89E $K_S \rho^0$ Dejongh 89 Albrecht 89L	$K^*(892)^- \pi^+$ Aston 88I Aston 87B Aston 86B	$K_S \rho^0$ Albrecht 89L	K_L Bisello 90 Dolinsky 89B Kopke 89 Mallik 89B Augustin 88C Doser 88 Sedlak 88 Shoemaker 88 Asratyan 87C Aulchenko 87B Barkov 87B Burov 87 Vasserman 86 Augustin 85C Baltrusaitis 85E Barkov 85B Drushinin 85 Landsberg 85
$K_1(1400)^0$ $K^*(892)^- \pi^+$ Albrecht 89S Browder 89 Albrecht 89L Albrecht 88E Aston 88I Aston 87B	$\bar{K}^*(892)^0 \pi^0$ Aston 86B	$K_2^*(2045)^+$ $K_S \pi^+$ Albrecht 89L	$2e^- 2e^+$ Littenberg 89
$\bar{K}_1(1270)^0$ $\bar{K}^0 \pi^+ \pi^-$ Adler 89E $K_S \pi^+ \pi^-$ Dejongh 89 Albrecht 89L	$K^- \pi^+$ Albrecht 89L Aston 89B Albrecht 88E Aston 88B Aston 88I Sedlak 88 Aston 86 Aston 86B	$K_2^*(2045)^-$ $K_S \pi^-$ Albrecht 89L	2γ Auge 89B Burkhardt 87
$K_1(1400)^0$ $K^*(892)^- \pi^+$ Albrecht 89S Browder 89 Albrecht 89L Albrecht 88E Aston 88I Aston 87B	$\bar{K}^0 \pi^+ \pi^-$ Aston 88I Aston 86B	$K^*(892)^0 \phi$ Torres 85 $K^+ \phi \pi^-$ Torres 85 $K^+ \pi^-$ Albrecht 89L	$2\pi^0$ Barr 90 Carosi 90 Patterson 90 Yamanaka 90 Auge 89 Fayard 89 Gibson 89 Holder 89 Peyaud 89 Winstein 89 Yamanaka 89 Burkhardt 88 Hsiung 88 Woods 88 Burkhardt 87 Bernstein 85 Blatt 85
$\bar{K}_1(1270)^0$ $\bar{K}^0 \pi^+ \pi^-$ Adler 89E Aston 88I $\bar{K}^0 \rho^0$ Aston 88I Aston 87B	$\bar{K}^0 \rho^0$ Aston 88I Aston 87B	$\bar{K}_4^*(2045)^0$ $K^*(892)^- \pi^+$ Aston 88I Aston 87B	$e^- e^+ 2neutral (neutrals)$ Silvestrov 86
$K_2^*(1430)^+$ $K^0 \pi^+$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C $K_S \pi^+$ Gerdyukov 87 Gerdyukov 86B	$\bar{K}_2^*(1980)^0$ $\bar{K}^0 \pi^+ \pi^-$ Aston 88I	$K^- \pi^+$ Albrecht 89L Aston 89B Aston 87B	$e^- e^+ \gamma$ Auge 89B Littenberg 89
$K_2^*(1430)^+$ $K^0 \pi^+$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C $K_S \pi^+$ Gerdyukov 87 Gerdyukov 86B	$K_2^*(1780)^+$ $K^+ \rho^0$ Albrecht 89L $K_S \pi^+$ Albrecht 88E	$\bar{K}^0 \pi^+ \pi^-$ Aston 88I Aston 86B	$e^- e^+$ Gilman 89 Inagaki 89 Inagaki 89C Littenberg 89 Mathiazhagan 89 Schaffner 89 Cousins 88 Greenlee 88 Inagaki 88 Jastrzembski 88
$K_2^*(1430)^-$ $K^- \eta$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C Aston 89B Aston 88G Aston 88I Aston 86B	$K_2^*(1780)^-$ $K^- \eta$ Aston 89B Aston 88G Aston 88I Aston 86B	$\bar{K}^0 \rho^0$ Albrecht 89L	$\mu^+ e^-$ Gilman 89 Inagaki 89 Inagaki 89C Littenberg 89 Mathiazhagan 89 Schaffner 89 Cousins 88 Greenlee 88 Inagaki 88 Jastrzembski 88
$K_2^*(1430)^-$ $K^- \eta$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C Aston 89B Aston 88G Aston 88I Aston 86B	$K_S \pi^-$ Bird 88 Albrecht 88E	$\bar{K}^0 \rho^0$ Aston 88I Aston 86B	^{38}KK $^{38}Ar e^+ \nu_e$ Hardy 89
$K_2^*(1430)^-$ $K^- \eta$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C Aston 89B Aston 88G Aston 88I Aston 86B	$K_3^*(1780)^0$ $K^+ \pi^-$ Albrecht 88E $K_S \rho^0$ Albrecht 89L	$\bar{K}^0 \rho^0$ Aston 88I Aston 86B	KK Kozma 90
$K_2^*(1430)^-$ $K^- \eta$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C Aston 89B Aston 88G Aston 88I Aston 86B	$K_3^*(1780)^0$ $K^+ \pi^-$ Albrecht 88E $K_S \rho^0$ Albrecht 89L	$\bar{K}^0 \rho^0$ Aston 88I Aston 86B	$KK(L=0)$ Aston 88H
$K_2^*(1430)^-$ $K^- \eta$ Albrecht 89S Kopke 89 Abachi 87B Aziz 85C Aston 89B Aston 88G Aston 88I Aston 86B	$K_3^*(1780)^0$ $K^*(892)^- \pi^+$ Aston 88I Aston 87B Aston 86B	$\bar{K}^0 \rho^0$ Aston 88I Aston 86B	

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

K_L	$\mu^- e^+$	Inagaki 89 Inagaki 89C Littenberg 89 Mathiazhagan 89 Schaffner 89 Cousins 88 Greenlee 88 Inagaki 88	^{81}Kr Krofcheck 87	K_S Barkov 87B Bogolyubsky 87C Grossman 87 Gourlay 86 Aihara 85 Albrecht 85G Althoff 85B Barkov 85B Bernstein 85 Blatt 85 Schellman 85	$\Lambda(1405 S_{01})$ $\Sigma^- \pi^+$ Hemingway 84
	$\mu^- \mu^+$	Gilman 89 Inagaki 89 Inagaki 89C Littenberg 89 Mathiazhagan 89 Mathiazhagan 89B Schaffner 89 Inagaki 88	^{82}Kr Barabash 89B Caldwell 88 Nakamura 88 Rosen 88 Elliott 87 Elliott 87B Elliott 86 Marti 85	$\pi^+ \pi^0 \pi^-$ Barmin 85 $\pi^0 e^- e^+$ Gibbons 88 Hsiung 88	$\Lambda(1620 D_{03})$ $\Lambda \pi^+ \pi^-$ Allen 85 Dainton 85 $p K^-$ Krastev 88 Albrecht 89B Albrecht 88Q
ν_μ atom($\pi\mu$)	Aronson 86	$^{85}\text{Kr}^*$ Butsev 85	^{131}La Butsev 85	$\Lambda N(2130^3 S_1)^+$ $n \Sigma(1385 P_{13})^+$ Frascaria 89	
$\pi \ell \nu$	Cupal 85	^{86}Kr Caldwell 88	^{132}La Butsev 85	$p \Lambda$ Frascaria 89 $p \Sigma(1385 P_{13})^0$ Frascaria 89	
$\pi \mu^\pm \nu_\mu$	Aronson 86	K_S 2γ Auge 89B Dolinsky 89B Balats 87 Burkhardt 87 Barmin 86C Vasserman 86 Druzhinin 85	Λ $n \gamma$ $n \pi^0$ Biagi 86 $p e^- \bar{\nu}_e$ Biagi 87D $p \pi^-$ Dworkin 90 Barnes 90 Ajienko 89E Albrecht 89B Bamberger 89 Barlag 89 Barlag 89C Belonkin 89 Braunschweig 89I Trost 89 Vecko 89 Albrecht 88I Aleev 88B Aleev 88E Aleksiev 88 Aston 88C Avery 88 Ballar 88 Barwolf 88 Bensinger 88 Bonner 88 Klein 88 Luk 88 Tixier 88 Turkot 88 Vesztergombi 88 Vorobiev 88E Aleev 87 Barnes 87 Barnes 87B Bogolyubsky 87C Camilleri 87 Henraud 87 Kennett 87B Klein 87B Naroska 87 Pallin 87 Vorobiev 87B Albrecht 86G Aleev 86B Baden 86 Gourlay 86 Vorobiev 86 Aihara 85B Allasia 85D Althoff 85B Bocwoc 85 Alner 84B	Λ_c^+ Mfiller 89 Wormser 89 Aguliarbenit 88B Albrecht 88G Danilov 88 Roudeau 88 Ushida 88 Ushida 88B Aguliarbenit 87H Alam 87B Aleev 87B Amendo'ia 87B Abe 86 Adamovich 86B Adamovich 86E Barlag 86 Duffy 86 Ushida 86 Christenson 85 Mestayer 85 Voyvodic 85 Yamamoto 85E Ajienko 84B Aleev 84C Sliwa 83 3charged (neutrals) Aguliarbenit 87 Aziz 85 $\Delta(1232 P_{33})^{++} K^*(892)^-$ Forino 87 $\Delta(1232 P_{33})^{++} K^- \pi^0$ Forino 87 $\Delta(1232 P_{33})^{++} K^-$ Klein 89C Barlag 88C	
$\pi^+ \mu^- \bar{\nu}_\mu$	Ramm 85	$2\pi^0$ Barr 90 Carosi 90 Patterson 90 Yamanaka 90 Auge 89 Berger 89 Dolinsky 89B Fayard 89 Gibson 89 Holder 89 Inagaki 89 Inagaki 89C Peyaud 89 Winstein 89 Burkhardt 88 Woods 88 Hsiung 88 Aulchenko 87B Burkhardt 87 Bernstein 85 Blatt 85 e ⁻ e ⁺ 2neutral (neutrals) Silvestrov 86 e ⁻ e ⁺ Auge 89B Bitsadze 85 $\mu^- \mu^+$ (neutrals) Silvestrov 87	^{131}La Butsev 85	$e^+ X$ Klein 89C Ammosov 87D	
$\pi^+ \pi^0 \pi^-$	Jastrzembski 88 Barmin 85	$\pi^+ \pi^-$ Avery 90 Barr 90 Carosi 90 Patterson 90 Yamanaka 90 Abachi 89B Alexander 89 Auge 89 Berger 89 Dolinsky 89B Fayard 89 Gibson 89 Holder 89 Peyaud 89 Phillips 89 Winstein 89 Aihara 88B Albrecht 88O Aleev 88E Ansonje 88 Aston 88C Barwolf 88 Bonner 88 Burkhardt 88 Doser 88 Hsiung 88 Tschirhart 88 Vesztergombi 88 Woods 88 Abe 87B Aihara 87G	$\Lambda(1405 S_{01})$ $n \bar{K}^0$ Hemingway 84 $\Sigma^+ \pi^-$ Hemingway 84	$\Delta(1232 P_{33})^{++} K^- \pi^0$ Forino 87 $\Delta(1232 P_{33})^{++} K^-$ Klein 89C Barlag 88C	
$\pi^- \mu^+ \nu_\mu$	Ramm 85	$\pi^0 2\gamma$ Barr 90C Auge 89B Littenberg 89 Papadimitrio 89		$\Lambda 2\pi^+ \pi^- X$ Chauvat 87 $\Lambda 2\pi^+ \pi^-$ Barlag 90C Anjos 89C Bocwoc 89 Klein 89C Vecko 89 Albrecht 88D Albrecht 88H Aleev 88C Klein 88 Prokoshkin 87C Bocwoc 85	
$\pi^0 e^- e^+$	Ohl 90 Auge 89B Gilman 89 Holder 89 Holder 89 Littenberg 89 Yamanaka 89 Bar 88 Gibbons 88 Hsiung 88 Jastrzembski 88	$\pi^0 \text{ higgs}$ Barr 90B Auge 89B Gilman 89		$\Lambda e^+ X$ Klein 89 Klein 89C Klein 88	
K_L	Kozma 90			$\Lambda \mu^+ X$ Klein 89 Klein 89C Klein 88	
^{77}Kr	Butsev 85			$\Lambda \pi^+$ Anjos 89C	

Λ_c^+

ℓ^0

Λ_c^+	Λ_c^+	$\bar{\Lambda}_c^-$	ℓ^+
$\mu^+ X$	Klein 89C Albrecht 88D Klein 88 Jones 87B	$p K_S \pi^+ \pi^-$ Albrecht 88H Klein 89C Prokoshkin 87C	Albrecht 89N Albrecht 89Q Artuso 89 Behrend 89J Decamp 89C Franzini 89 Gilman 89 Halling 89 Itep 89 Schubert 89 Stoker 89 Behrend 88C Barlow 87 Adeva 85 Murtagh 85B
$n K^- 2\pi^+$	Sviridov 88 Tzeng 85	$p K_S$ Bowcock 89 Klein 88	$e^+ \bar{\nu}_\mu \nu_e$ Sakai 89
$\nu_e X$	Klein 89C Batusov 87B	$p \phi$ Barlag 90C Klein 89C Barlag 88C	$\mu^+ \nu_\mu \bar{\nu}_\mu$ Sakai 89
$\nu_\mu X$	Duffy 88	$p \pi^+ \pi^-$ Barlag 90C	$\bar{\nu}_\mu q \bar{q}$ Sakai 89
p 2charged (neutrals)	Duffy 88 Aguilarbenit 87	$p \pi^+ \pi^0 \pi^-$ Barlag 90C	$\tau^+ \nu_\tau \bar{\nu}_\mu$ Sakai 89
$p 2\pi^+ 2\pi^-$	Barlag 90C	$p X$ Aguilarbenit 86D	ℓ^\pm Rowson 85B
$p e^+ X$	Klein 89C	$\Sigma^+ \pi^+ \pi^-$ Klein 89C Barlag 88C Batusov 87B Forino 87 Voyvodic 86B	ℓ^- Alexander 90 Decamp 90H Elsen 90 Adachi 89B Albrecht 89T Artuso 89 Behrend 89J Decamp 89C Franzini 89 Gilman 89 Halling 89 Itep 89 Jung 89 Behrend 88C Alam 87 Barlow 87 Wendt 87 Adeva 85 Murtagh 85B
$p f_0(975)$	Barlag 90C	$\Sigma^0 \pi^+ \pi^0$ Klein 89C Forino 87	$(K^\pm 's) 4K^\pm \ell^0 \gamma (\gamma 's)$ Stoker 89
$p \bar{K}^*(892)^0 \pi^+ \pi^-$	Barlag 88C	$\Xi^- K^+ \pi^+$ Klein 89C	$5\pi^\pm (\pi^\pm 's) \ell^0 \gamma (\gamma 's)$ Stoker 89
$p \bar{K}^*(892)^0$	Klein 89C Barlag 88C	$\bar{\Lambda}_c^-$ Barlag 90C Barlag 90D Aguilarbenit 88B Danilov 88 Aguilarbenit 87H Alam 87B Barlag 86 Yamamoto 85E Aguilarbenit 87	$\alpha_1(1260) \ell^0$ Stoker 89
$p \bar{K}^*(892)^0$	Klein 89C Barlag 88C	3charged (neutrals) $\bar{\Delta}(1232 P_{33}) \pi^- K^+$ Barlag 88C	$e^- \ell^0 \bar{\nu}_e$ Stoker 89
$p K^+ K^-$	Barlag 90C	$\bar{\Lambda} e^- X$ Klein 89 Klein 88	$e^- \nu_\mu \nu_e$ Sakai 89
$p K^- 2\pi^+ \pi^-$	Barlag 90C Klein 89C Barlag 88C	$\bar{\Lambda} \mu^- X$ Klein 89 Klein 88	$\mu^- \ell^0 \bar{\nu}_\mu$ Stoker 89
$p K^- \pi^+ 2\pi^0$	Barlag 90C	$\bar{\Lambda} \pi^+ 2\pi^-$ Anjos 89C Albrecht 88D Albrecht 88H Klein 88 Bowcock 85	$\mu^- \nu_\mu \bar{\nu}_\mu$ Sakai 89
$p K^- \pi^+ \pi^0$	Barlag 90C Klein 89C	$\bar{\Lambda} \pi^-$ Anjos 89C Albrecht 88D Klein 88	$\nu_\mu q \bar{q}$ Sakai 89
$p K^- \pi^+$	Alvarez 90 Alvarez 90B Barlag 90 Barlag 90B Barlag 90C Barlag 90D Alevy 89B Anjos 89 Bowcock 89 Klein 89C Schubert 89 Albrecht 88D Albrow 88 Anjos 88C Barlag 88B Barlag 88C Barlag 88D Bortoletto 88 Klein 88 Aguilarbenit 87 Anjos 87B Batusov 87 Batusov 87B Cotus 87 Cotus 87B Cumalat 87B Diesburg 87 Filaseta 87B Luth 87 Smart 86	$\bar{\nu}_e X$ Duffy 88	$\pi^- \ell^0$ Stoker 89
$p \bar{K}^0 \pi^+ \pi^-$	Barlag 90C Anjos 89C Alevy 88C	$\bar{\nu}_\mu X$ Duffy 88	$\rho^- \ell^0$ Stoker 89
$p \bar{K}^0 \pi^+ \pi^0 \pi^-$	Barlag 90C	$\bar{p} K^*(892)^0 \pi^+ \pi^-$ Barlag 88C	$\tau^- \bar{\nu}_\tau \nu_\mu$ Sakai 89
$p \bar{K}^0$	Anjos 89C Klein 89C Albrecht 88D	$\bar{p} K^*(892)^0$ Barlag 88C	lepton-colored
		$\bar{p} K^+ \pi^-$ Alvarez 90B Albrecht 88D Albrecht 88H Anjos 88C Barlag 88C Barlag 88D Bortoletto 88 Klein 88 Diesburg 87 Filaseta 87B	ℓ gluon Bartel 87
		$\bar{p} K^0 \pi^+ \pi^-$ Anjos 89C	ℓ jet Bartel 87
			ℓ^0 Alexander 90 Decamp 90H Elsen 90 Adachi 89B
			$e^\pm X$ Stoker 89
			$e^- X$ Wu 87 Abrams 89F

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

ℓ^0	$\mu^- X$ $\tau^- X$	Abrams 89F Abrams 89F	longlived	$\pi^+ \pi^-$ Badier 85	meson⁰	2ϕ	Bisello 90 Augustin 88C Toki 88B Toki 87 Booth 85	meson⁰	Atkinson 85D $K^+ \bar{K}^0 \pi^-$ Birman 88 $K^+ K_S \pi^- + K_S K^- \pi^+$ Gidal 88 $K^+ K_S \pi^-$ Aihara 88D Stanco 88 $K_S K^- \pi^+$ Aihara 88D Stanco 88 $\Lambda \bar{\Lambda}$ Bolonkin 89 Armstrong 87 $\omega \eta$ Atkinson 86 $\omega \pi^0$ Takamatsu 89 $p \bar{p} 2\pi^+ 2\pi^-$ Armstrong 87 $p \bar{p} \pi^+ \pi^-$ Armstrong 87 $p \bar{p}$ Armstrong 87 Bodenkamp 85 $\phi \gamma$ Landsberg 87 $\phi \omega$ Toki 87 $\phi \pi^0$ Landsberg 88 Landsberg 87 Bitjukov 86 Bitjukov 85 $\pi^+ \pi^-$ Mallik 89B Toki 88 Toki 88B Daftari 87 Rybicki 86 Rybicki 85 $\rho^+ \rho^-$ Bisello 89 Toki 88B Toki 87 $\rho^0 \eta$ Fukui 88 $\rho^0 \gamma$ Toki 88B Toki 87 $\rho^0 \pi^+ \pi^-$ Armstrong 89E
$\bar{\ell}^0$	Abrams 89F Wu 87		Lu	Kozma 90 Kozma 88	meson⁰	$2\pi^+ 2\pi^-$	Armstrong 89E Bridges 86C Bridges 86D		
Li	Aivazyan 86 Aivazyan 86B Kim 86C Aggarwal 85B		majoron	Arbabash 90 Artemiev 89 Barabash 89 Barabash 89B Barabash 89C Fisher 89 Kirpichnikov 89 Vasenko 89 Alstongarijo 88 Britton 88 Caldwell 88 Dougherty 88 Nakamura 88 Totsuka 88 Vasenko 88 Barabash 87B Caldwell 87 Elliott 87 Fisher 87	$4\pi^0$	Alde 88D Schmitt 88 Toki 88B			
Li*	Ananiev 83		meson	Bartke 89 Korsgen 88 Bobukin 87 Bartel 85M Blinov 85B Park 85	$a_0(980)^+ \pi^-$	Alde 87C Prokoshkin 87B			
¹⁰Li	Kobayashi 89C		$2\rho \pi$	Atkinson 88	$a_0(980)^- \pi^+$	Ando 86			
⁶Li	Naumenko 89 Baturin 88 Kobayashi 88 Avdechikov 86 Hallin 86 Abashidze 85 Alkhazov 85B		$a_0(980) \pi$	Szklarz 89	$a_2(1320)^+ \pi^-$	Ando 86			
⁶Li*			$K \bar{K} \pi$	Stanco 88	$a_2(1320)^- \pi^+$	Armstrong 89E			
⁶Li axion	Hallin 86		$K \rho$	Efendiev 89	$b_1(1235)^+ \pi^-$	Armstrong 89E			
⁶Li γ	Naumenko 89		$K^*(892) K$	Szklarz 89	$b_1(1235)^- \pi^+$	Atkinson 86B			
⁷Li	Kobayashi 89C May 89B Kobayashi 88 Avdechikov 86 Ermakov 86C Marx 86 Abashidze 85 Ruckstuhl 85B Ananiev 83		$K^*(892) \pi$	Efendiev 89	$e^- e^+$	Bini 89B Bokemeyer 89 Bokemeyer 88 Elmadi 88 Kozluharov 88 Savage 88C Bowcock 86			
⁷Li_S			$\rho 3\pi$	Efendiev 89	$\eta \pi^+ \pi^-$	Toki 88B Toki 87			
⁷Be π^-	Avramenko 87		meson⁻	Atkinson 88	$\eta \pi^0$	Boutemour 89 Alde 88E Augustin 88C Boutemour 88 Iddir 88			
⁸Li	Kobayashi 89C Kobayashi 88 Avdechikov 86 Abashidze 85 Batusov 85 Pniewski 85		$\eta \pi^-$	Takamatsu 89	$\eta' \eta$	Alde 88D Alde 86E			
⁹Li	Kobayashi 89 Kobayashi 88		$\pi^+ 2\pi^-$	Schmidke 86 Bellini 84	$\eta' \pi^0$	Boutemour 89 $f_2(1270) \pi^+ \pi^-$ Armstrong 89E			
⁹Li_S			meson⁰	Angelis 90 Prokoshkin 87 Prokoshkin 87C Alde 86	$K \bar{K}$	Toki 88B $K^*(892)^+ K^*(892)^-$ Toki 88B			
⁸Li $p \pi^-$	Pniewski 85		2η	Alde 88D Schmitt 88 Prokoshkin 87B Alde 86C	$K^*(892)^+ K^-$	Aihara 88D			
longlived	Soderstrom 90 Nakamura 89 Bernstein 88 Akhcev 86 Abramov 86B Albrecht 86 Badier 86 Abachi 85 Amaldi 85 Thron 84		2γ	Kozluharov 88	$K^*(892)^- K^+$	Aihara 88D			
$e^+ \ell^- \nu_e$	Jung 89		$2K_S$	Mallik 89B Alde 88D Augustin 88 Toki 88 Toki 88B Baloshin 87 Toki 87 Baloshin 84	$K^*(892)^0 \bar{K}^*(892)^0$	Aihara 88D Mallik 89B Toki 88 Toki 88B			
$e^- e^+$	Badier 85		2ω	Alde 90 Alde 89 Alde 88C Toki 88B Bisello 87 Toki 87	$K^*(892)^0 \bar{K}^0 + \bar{K}^*(892)^0 K^0$	Aston 88			
$\mu^- \mu^+$	Badier 85			Alde 90 Alde 89 Alde 88C Toki 88B Bisello 87 Toki 87	$K^+ K^-$	Mallik 89B Aston 88F Augustin 88 Toki 88 Toki 88B Toki 87 Armstrong 86B			
								²⁴Mg	Baroni 90 Kozma 90 Kozma 88 Avdechikov 87 Avdechikov 87B Avdechikov 87C Avdechikov 87E Avdechikov 87F Avdechikov 87G
								²⁶Mg	Beltrami 85B
								²⁷Mg	Hardy 89 Wichees 87
								²⁸Mg	Arakelyan 90
									Kozma 90B Kozma 89 Kozma 88B Kozma 86 Butsev 85 Dersch 85 Hufner 85

Mn

mult[charged]

Mn	μ^{*+}		muonium	mult[charged]
Kozma 90 Kozma 88		Kamae 88 Kim 88C	Huber 88 Marshall 88 Ni 87 Beer 86	Khan 89 Lund 89 Marshall 89 Mattig 89 Nagy 89 Tannenbaum 89 Wagner 89B Abdurakhimov 88B Adamus 88F Adamus 88G Agularbenit 88C Akeson 88D Albrecht 88 Alexopoulos 88B Allday 88 Anumar 88B Arneodo 88B Baatar 88 Baatar 88B Babintsev 88 Baily 88 Bailestra 88 Batskovich 88 Batyunya 88 Batyunya 88B Bogolyubsky 88 Bogolyubsky 88E Bogolyubsky 88F Bonino 88 Boos 88B Breakstone 88B Brechtmann 88B Chekulaev 88B Eckart 88 Fabbri 88 Filatov 88 Franz 88B Grigalashvili 88 Kitagaki 88 Korsgen 88 Lohner 88 Lund 88 Mekhiev 88 Miettinen 88 Miyano 88 Otterlund 88B Perepelitsa 88 Reinsberg 88 Ren 88C Ritter 88 Schukraft 88 Sediak 88 Sengupta 88 Shivpuri 88 Tao 88 Turkot 88 Ajinenko 87E Akeson 87E Ammar 87 Baatar 87 Baatar 87B Bailey 87D Bailestra 87B Bannik 87 Batyunya 87 Batyunya 87B Batyunya 87I Berger 87B Bogolyubsky 87 Bogolyubsky 87C Bogolyubsky 87D Bogolyubsky 87E Boos 87B Bystricky 87 Camilleri 87 Derrick 87C Doss 87 Elnaghy 87B Fredriksson 87 Gittelman 87 Jain 87C Naroska 87 Okhrimenko 87 Schmidt 87
⁵⁰ Mn	$\mu^+ \gamma$	Akrawy 90G Adachi 89D Maki 88B Shirai 88 Yamauchi 88 Behrend 86	mult[black] Babaev 90 Adamovich 89C Ahmad 89 Ameeva 89 Andreeva 89 Abduzhamilov 88B Abduzhamilov 88C Adamovich 88D Ammar 88 Andreeva 88 Jain 88 Khan 88 Taktibaev 88 Abdurazakova 87 Abduzhamilov 87 Bannik 87 Elnaghy 87B Krasnov 87 Andreeva 86 Ghosh 86 Krasnov 86 Shivpuri 86 Andreeva 85C Claesson 85 Kim 85	
⁵² Mn	μ^{\pm}	Kichimi 88		
Kozma 88B Kozma 86 Michel 85	$\mu^{\pm} \gamma$	Kim 88C		
⁵⁴ Mn	μ^{\pm}	Decamp 90G Kim 89B Kamae 88 Kim 88C		
Kozma 88B Kozma 86	μ^{*-}	Akrawy 90G Adachi 89D Maki 88B Shirai 88 Yamauchi 88 Behrend 86		
⁵⁶ Mn	$\mu^- \gamma$	Akrawy 90G Adachi 89D Maki 88B Shirai 88 Yamauchi 88 Behrend 86		
Kozma 88B Kozma 86 Butsev 85	μ^+	Bolton 88 Grosnick 86	mult[charged] Abatzis 90 Abreu J0D Ajinenko 90 Ajinenko 90B Albajar 90 Albajar 90B Andreev 90B Batyunya 90 Bhattacharje 90 Braunschweig 90 Derado 90 Ghosh 90B Zheng 90 Abrams 89E Abreu 89 Agakishiev 89 Agakishiev 89C Ajinenko 89 Ajinenko 89C Ajinenko 89D Akeson 89B Albajar 89 Albrecht 89B Albrecht 89D Albrecht 89M Angelov 89 Anikina 89 Ansorge 89 Ansorge 89C Arakelyan 89D Baacar 89 Easart 89B Banerjee 89 Bastid 89 Batyunya 89 Bhattacharje 89C Bogolyubsky 89B Braun 89 Braunschweig 89C Braunschweig 89J Bressi 89 Brick 89 Buschbeck 89 Ghosh 89 Glagolev 89 Guaraldo 89 Guaraldo 89B Gulkanyan 89 Gutbrod 89 Holyński 89 Hubbard 89B	
Mo	$\mu^- \gamma$	Bolton 88 Grosnick 86		
Kozma 90	μ^+	Balke 88		
¹⁰⁰ Mo	$e^+ 2\gamma$	Jodidio 86 Goldman 87		
¹⁰⁰ Ru 2e ⁻ 2ν	$e^+ \text{ axion}$	Bolton 88 Bolton 86		
Wasiliev 90 Dougherty 88	$e^+ \text{ familon}$	Bryman 86B Eichler 86		
¹⁰⁰ Ru 2e ⁻ 2ν _e γ	$e^+ \gamma \text{ neutral (neutrals)}$	Bossingham 89		
Barabash 89D	$e^+ \gamma \text{ neutral}$	Balke 88 Bolton 88 Beltrami 87 Beltrami 87B Bryman 86B Jodidio 86 Andreev 85 Burkhardt 85B Burkhardt 85C		
¹⁰⁰ Ru 2e ⁻ 2ν _e	$e^+ \nu \bar{\nu}$	Stoker 85		
Barabash 89B Rosen 88	$e^+ \bar{\nu}_\mu \nu_e$	Bellgardt 88 Berti 85		
¹⁰⁰ Ru 2e ⁻ γ	$e^- 2e^+ \bar{\nu}_\mu \nu_e$	Bellgardt 88 Bolton 88 Berti 85		
Barabash 89D	$e^- 2e^+$	Ahmad 88		
¹⁰⁰ Ru 2e ⁻ majoron	$e^- \gamma$	Ahmad 88		
Barabash 89B Alstongarnjo 88 Caldwell 88 Dougherty 88	muonium	Janissen 89		
¹⁰⁰ Ru 2e ⁻	muonium	Huber 88 Marshall 88 Ni 87 Beer 86		
Alstongarnjo 89 Barabash 89B Klimenko 89 Dougherty 88 Krivichich 88 Rosen 88	μ^-			
¹⁰⁰ Ru* 2e ⁻ 2ν _e	$2e^- e^+$			
Barabash 89D	$e^- \gamma$			
¹⁰⁰ Ru* 2e ⁻	muonium			
Barabash 89D	muonium			
⁹⁰ Mo				
Butsev 85				
⁹⁰ Mo*				
Butsev 85				
⁹² Mo*				
Butsev 85				
⁹⁴ Mo				
Barabash 88 Norman 87				
⁹⁶ Mo				
Barabash 89B Barabash 88 Norman 87				
monopole				
Kinoshita 89B Virodov 89 Braunschweig 88 Kichimi 88 Kinoshita 88B Kinoshita 88C Maki 88B Shirai 88 Gentile 87 Price 87 Wu 87				
μ^{*+}				
Decamp 90G Kim 89B				

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

mult[charged]

mult[jet]

<p>mult[charged]</p> <p>Stopa 87 Abe 86 Aguilarbenit 86C Ahn 86 Albrecht 86D Aleksan 86 Aler 86C Ammar 86B Appel 86 Arneodo 86E Arnison 86D Babintsev 86 Bajramov 86 Baldin 86 Bailestra 86B Banerjee 86B Batyunya 86B Bell 86 Bell 86B Boos 86 Brick 86 Bumazhnov 86 Dengler 86C Derrick 86 Derrick 86C Comez 86 Holl 86 Kozlovsky 86 Kuhlen 86B Kutsidi 86 Naudet 86 Piragino 86B Sugano 86 Ukhanov 86 Ward 86B Adeva 85 Adeva 85C Aggarwal 85 Aggarwal 85B Aguilarbenit 85F Ahmad 85B Ajinenko 85 Akeson 85E Aleev 85 Allasia 85B Aler 85 Aler 85C Aler 85D Althoff 85B Althoff 85C Ameev 85 Appel 85B Aston 85B Atkinson 85E Badier 85 Bailestra 85 Banerjee 85 Banerjee 85B Batusov 85C Batyunya 85 Batyunya 85D Bernard 85 Boidea 85 Breakstone 85E Cerradini 85 Chakrabarti 85 Chapin 85 Dobrotin 85 Enyo 85 Erriquez 85 Feldman 85 Gan 85 Grishin 85C Hallman 85 Jones 85 Sakuda 85 Savoynavarro 85 Venkataraman 85B Asai 84 Georgiopoulos 84 Gritsaenko 84</p> <p>mult[charged⁺]</p> <p>Agakishiev 89C</p>	<p>mult[charged⁺]</p> <p>Ajinenko 89 Bekmirzaev 88C Boos 88 Armutlijsky 87B</p> <p>mult[charged⁻]</p> <p>Ajinenko 90B Agakishiev 89C Ajinenko 89 Alimov 89B Anikina 89 Bartke 89 Brick 89 Abe 88 Bekmirzaev 88C Boos 88 Grigalashvili 88 Armutlijsky 87B Bailey 87D Fredriksson 87 Anikina 86D Dengler 86C</p> <p>mult[charged-hadron]</p> <p>Censer 89 Jongejans 89 Sakai 89 Shaw 89 Wittek 88 Rouse 87 Althoff 86B Antreasyan 86B Derrick 86C Althoff 85C Arneodo 85 Blinov 85E Rowson 85B</p> <p>mult[charged-meson]</p> <p>Atwater 87</p> <p>mult[deuteron]</p> <p>Bannik 87B</p> <p>mult[e⁺]</p> <p>Inoue 85 Inoue 85B</p> <p>mult[e⁻]</p> <p>Inoue 85 Inoue 85B</p> <p>mult[γ]</p> <p>Abachi 88B</p> <p>mult[frag]</p> <p>Bougault 90 Anikina 89 Guaraldo 89B Doss 88 Strugalski 88 Burnett 85D Hufner 85 Waddington 85</p> <p>mult[fragb]</p> <p>Babaev 90 Gill 90 Glagolev 89 Romano 89 Andreeva 88C Ramello 88 Bannik 87 Gulkanyan 87C Anikina 85 Boldea 85</p> <p>mult[fragt]</p> <p>Akimenko 89 Grabez 88 Rabin 88 Bannik 87 Berdnikov 86 Anikina 85</p>	<p>mult[γ]</p> <p>Chiba 89 Kawamura 89 Riles 89 Abdurakimov 88B Chiba 88 Gladyszdziad 88 Gulkanyan 88C Navia 88 Ren 88 Ren 88B Ren 88C Riles 88 Abbott 87 Gulkanyan 87C Skwarnicki 87B Tannenbaum 87 Aler 86C Ukhanov 86B Ward 86B Azimov 85B Blinov 85E Borisov 85 Borisov 85B Borisov 85C Burnett 85 Burnett 85D Chakrabarti 85 Dobrotin 85 Istrmatova 85</p> <p>mult[gray]</p> <p>Ahmad 90 Ajinenko 90B Artykov 90 Babaev 90 Brick 90 Gill 90 Tariq 90 Abduzhamilov 89 Adamovich 89C Adamovich 89D Ahmad 89 Ajinenko 89 Alimov 89B Ameeva 89 Andreeva 89 Bajramov 89 Brick 89 Lhote 89 Abduzhamilov 88B Abduzhamilov 88C Abe 88 Ammar 88 Andreeva 88 Boos 88 Khan 88 Abdurazakova 87 Abduzhamilov 87 Ammosov 87C Bailey 87D Bannik 87 Bannik 87B Elnaghy 87B Fredriksson 87 Gulkanyan 87B Andreeva 86 Biswas 86 Boos 86C Ghosh 86 Holyński 86B Juric 86 Krasnov 86 Shivpuri 86 Andreeva 85C Boldea 85</p> <p>mult[hadron]</p> <p>Bhattacharjee 89B Lund 89 Odyniec 89 Pitzl 89 Tannenbaum 89 Albajar 88E Dzhaoshevili 88 Gladyszdziad 88</p>	<p>mult[hadron]</p> <p>Kim 88 Kim 88D Navia 88 Ren 88B Arneodo 87 Baldin 87 Behrend 87 Arneodo 86E Bailey 86B Baldin 86B Grassler 86 Juric 86 Bazarov 85B Borisov 85B Yamamoto 85E</p> <p>mult[hadron⁺]</p> <p>Wittek 88</p> <p>mult[hadron⁰]</p> <p>Althoff 86B</p> <p>mult[He]</p> <p>Khan 89 Sengupta 89 Sengupta 89B Andreeva 88B Cai 87 Aggarwal 85B</p> <p>mult[htrack]</p> <p>Antonchik 90 Gill 90 Takibaev 90 Abduzhamilov 89 Ahmad 89 Ameeva 89 Gagarin 89 Sengupta 89 Abduzhamilov 88C Adamovich 88B Adamovich 88D Andreeva 88B Atageldieva 88 Dubinina 88 Khan 88 Krasnov 88 Otterlund 88 Ramello 88 Singh 88B Takibaev 88 Tret'yakova 88 Volal 88 Abdurazakova 87 Fredriksson 87 Jain 87B Shivpuri 87B Boos 86C Jain 86</p> <p>mult[jet]</p> <p>Abe 90 Abe 90C Watts 90 Abachi 89C Albajar 89B Braunschweig 89H Breakstone 89 Feldman 89B Geer 89 Kamon 89 Sinervo 89 Stubenrauch 89 Adachi 88B Dzhaoshevili 88 Maki 88 Tao 88 Albajar 87D Behrend 87 Summers 87 Baldin 86 Stubenrauch 86 Arnison 85B Atrnshekevich 85</p>
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mult[jet]

n

mult[jet]	Levi 85 Savoynavarro 85 Vuillemin 85 Yamamoto 85E	mult[p]	Miller 87B Toothacker 87 Abdinov 86 Doss 86 Pavlyak 86B Strugalski 86 Strugalski 86B Aggarwal 85B Armosov 85C Azimov 85D Azimov 85E Istmatova 85B Machner 85 Strugalski 85 Strugalski 85B Vorobiev 85	mult[π]	Avery 85 Strugalski 85B	n	$\eta \nu_e$ $K^*(892)^0 \nu$ Krishna wamy 86 $K^*(892)^0 \bar{\nu}$ Park 85B
mult[K⁺]	Nagy 89			mult[shower]	Andreev 90B Babaev 90 Gill 90 Jain 90 Jain 90B Abduzhamilov 89 Adamovich 89 Adamovich 89D Adamovich 89E Ahmad 89 Aliev 89 Ameeva 89 Andreeva 89 Aoki 89 Bhattacharje 89 Brick 89 Ghosh 89D Holyński 89B Kumar 89 Lepekhiñ 89 Romano 89 Singh 89		$K^*(892)^0 \nu$ Berger 89 Hirata 89B Barloutaud 88 Bourdarios 88 Barloutaud 87
mult[K[±]]	Alexopoulos 90 Pelzer 89				Abduzhamilov 88B Abduzhamilov 88C Adamovich 88 Adamovich 88C Adamovich 88D Amnar 88 Barbier 88B Boos 88B Jain 88 Jain 88B Khan 88 Kitagaki 88 Otterlund 88 Shivpuri 88 Singh 88 Stenlund 88 Tretyakova 88 Abdurazakova 87 Bailey 87D Bannik 87 Fredriksson 87 Jain 87B Shivpuri 87B Biswas 86 Boos 86C Ghosh 86 Jain 86 Juric 86 Krasnov 86 Shivpuri 86 Alitkekov 85 Andreeva 85B Claesson 85 Istmatova 85B Kim 85 Nikolsky 85		$K^*(892)^0 \bar{\nu}$ Haines 86 $K^+ e^-$ Phillips 89 $K^+ \mu^-$ Phillips 89 $K^0 \nu$ Haines 86 Park 85B $K^0 \bar{\nu}$ Hirata 89B Totsuka 89B Barloutaud 88 Hirata 88D Barloutaud 87
mult[K⁻]	Nagy 89	mult[p]	Alexopoulos 90				$K_S \bar{\nu}$ Berger 89 Bourdarios 88
mult[K⁰]	Nagy 89	mult[π⁺]	Andreev 90B Guaraldo 89 Guaraldo 89B Gulkanyan 88C Okonov 88 Wittek 88 Amelin 87 Armutijsky 87D Asaturyan 86 Albrecht 85D Bowcock 85				meson ℓ Park 85 $\mu^- \mu^+ \nu$ Phillips 89 Haines 86 Park 85B
mult[kaon]	Barlag 89B	mult[π[±]]	Alexopoulos 90 Alinov 89 Guaraldo 89B Sedlak 88 Abdinov 87 Toothacker 87 Asaturyan 86 Breakstone 86C Hallman 85 Vuillemin 85				π Berger 89C Bitter 89 Bressi 89 Nakamura 88 Krishnaswamy 86 Takita 86 Fidecaro 85 Park 85B
mult[K_S]	Pelzer 89						$\nu \gamma$ Haines 86 Park 85B
mult[A]	Nagy 89 Pelzer 89						$\omega \nu$ Seidel 88 Haines 86 Park 85B
mult[Ā]	Nagy 89 Pelzer 89						$\omega \bar{\nu}$ Berger 89 Hirata 89B Barloutaud 88 Bourdarios 88 Barloutaud 87
mult[lepton]	Kim 88	mult[π⁻]	Andreev 90B Baatar 90B Agakishiev 89 Agakishiev 89C Aliev 89 Anikina 89 Glagolev 89 Gulkanyan 89 Batskovich 88 Gulkanyan 88C Okonov 88 Wittek 88 Amelin 87 Gulkanyan 87C Asaturyan 86 Albrecht 85D Anikina 85 Azimov 85E Bowcock 85 Istmatova 85B				$p e^- \bar{\nu}_e$ Mampe 89 Paul 89 Simpson 89 Simpson 89B Alfimenkov 88 Belomlytsev 88 Klement 88 Last 88 Spivak 88 Simpson 85
mult[meson]	Park 85B			mult[strange]	Nagy 89		$\pi^+ e^-$ Seidel 88 Haines 86 Park 85B
mult[μ]	Vashkevich 88 Berger 86C Szabelski 86 Bologna 85 Castellina 85						$\pi^+ \mu^-$ Phillips 89 Seidel 88 Battistoni 86 Haines 86 Park 85B
mult[n]	Strugalski 88 Voronko 88 Dombisky 85	mult[π⁰]	Wittek 88 Barkalov 87 Batyunya 87D Gulkanyan 87B Gulkanyan 87C Miller 87B Azimov 85E Hallman 85 Vuillemin 85				$\pi^- e^+$ Hirata 89B Totsuka 89B Barloutaud 88 Bourdarios 88 Seidel 88 Barloutaud 87 Haines 86
mult[neutral]	Tannenbaum 89 Sedlak 88 Arnold 87B Aggarwal 85B Angelis 85	mult[π]	Barlag 89B Augustin 88C Baatar 88 Sedlak 88 Pavlyak 86B				
mult[p]	Andreev 90B Agakishiev 89 Amnar 89 Bannik 89 Degtyarenko 89 Guaraldo 89B Guy 89 Matsinos 89 Baatar 88 Baldin 88C Derado 88 Gulkanyan 88D Gustafsson 88 Okonov 88 Phuta 88 Strugalski 88 Strugalski 88C Abdinov 87 Agakishiev 87 Amelin 87 Armutijsky 87C Bannik 87B Boos 87 Fredriksson 87 Ghosh 87						

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

n	$N(1700 B)^+$	^{24}Na	neutral
$\pi^- \mu^+$	Park 85B	$\Delta(1232 P_{33})^{++} \pi^0 \pi^-$	2hadron (hadrons)
	Hirata 89B	Aleshin 87	Odaka 89
	Barloutaud 28	$N(2100 B)^+$	charged⁺ charged⁻
	Bourdarios 88	Aleshin 87	(neutrals) Burchat 90
	Seidel 88	$\Delta(1232 P_{33})^{++} \rho$	$e^- e^+$
	Barloutaud 87	Aleshin 87	Asanuma 90
	Battistoni 86	n(spect)	Aulchenko 86
	Haines 86	Sedlak 88	Blinov 86B
	Park 85B	Vapenikova 88	Eichler 86
$\pi^0 \nu$	Haines 86	Ball 87	Mageras 86
	Park 85B	Bridges 86B	Savage 86B
$\pi^0 \bar{\nu}$	Berger 89	Kitagaki 86	
	Hirata 89B	Mann 86	
	Totsuka 89B	Sai 86	
	Barloutaud 28	$N^*(\text{unspec})^+$	neutralino
	Bourdarios 88	$p \omega$	Akrawy 90M
	Barloutaud 87	Batyunya 86D	Barklow 90
$\rho^+ e^-$	Seidel 88	$N_{5/2}^*(1380)^{+++}$	Decamp 90D
	Haines 86	$\Delta(1232 P_{33})^{++} \pi^+$	^{86}Ni
	Park 85B	Mikhajlichen 87	Kozma 88B
		$p 2\pi^+$	Kozma 86
$\rho^+ \mu^-$	Phillips 89	$N_{5/2}^*(1390)^{+++}$	^{87}Ni
	Seidel 88	Arefiev 87	Kozma 88B
	Haines 86	Arefiev 90B	Bonin 86
	Park 85B	Arefiev 87	^{85}Ni
		Bogolyubsky 86E	Arakelyan 90
$\rho^- e^+$	Barloutaud 88	Arefiev 86	Wagner 85
	Bourdarios 88	$N_{5/2}^*(1480)^{+++}$	^{86}Ni
	Seidel 88	$p 2\pi^+$	Wagner 85
	Barloutaud 87	$N_{5/2}^*(1650)^{+++}$	Nit
	Haines 86	Arefiev 87	Avdejchikov 87
	Park 85B	Mikhajlichen 87	Avdejchikov 87B
$\rho^- \mu^+$	Barloutaud 88	$\Delta(1232 P_{33})^{++} \pi^+$	Avdejchikov 87C
	Bourdarios 88	$p 2\pi^+$	Avdejchikov 87E
	Seidel 88	Druts koy 88	Avdejchikov 87F
	Barloutaud 87	Arefiev 86	Avdejchikov 87G
	Haines 86	$N_{5/2}^*(1760)^{+++}$	Avdejchikov 87H
	Park 85B	$\Delta(1232 P_{33})^{++} \pi^+$	Avčejchikov 87I
$\rho^0 \nu$	Seidel 88	Mikhajlichen 87	Sangster 87
	Haines 86	$p 2\pi^+$	Aggarwal 85B
	Park 85B	Druts koy 88	Alkhazov 85B
$\rho^0 \bar{\nu}$	Berger 89	Arefiev 86	Nit*
	Hirata 89B	$N_{5/2}^*(2070)^{+++}$	$^{14}\text{Nit } e^- e^+$
	Barloutaud 88	$\Delta(1232 P_{33})^{++} \pi^+$	Savage 86B
	Bourdarios 88	Mikhajlichen 87	$^{14}\text{Nit neutral}$
	Barloutaud 87	$p 2\pi^+$	Savage 86B
		Druts koy 88	$^{15}\text{Nit } \gamma$
		$N_{5/2}^*(1700)^{+++}$	Seestrommorr 85
$N(1440 B)^+$	Azhgirej 88	$\Delta(1232 P_{33})^{++} \pi^+$	^{13}Nit
		Mikhajlichen 87	Goodman 85
		Druts koy 88	^{14}Nit
$N(1440 B)^0$	Alimov 88	$N_{5/2}^*(unspec)^{+++}$	Hardy 89
$N(1440 P_{11})$	Amelin 87	$\Delta(1232 P_{33})^{++} \pi^+$	Savage 88C
		Mikhajlichen 87	Hallin 86
$N(1440 P_{11})^+$	Amelin 87	$p 2\pi^+$	Savage 86B
		Druts koy 88	Wharton 85
$p \pi^+ \pi^-$	Amelin 87	$N_{5/2}^*(unspec)^{+++}$	$^{14}\text{Nit}^*$
$N(1440 P_{11})^0$	Amelin 87	$\Delta(1232 P_{33})^{++} \pi^+$	$^{14}\text{Nit axion}$
		Mikhajlichen 87	Hallin 86
$p \pi^-$	Amelin 87	$p 2\pi^+$	$^{14}\text{Nit } e^- e^+$
$N(1520 B)^+$	Azhgirej 88	Abramov 89C	Savage 88C
	Batyunya 87F	Na	$^{14}\text{Nit meson}^0$
$N(1680 F_{15})^+$	Azhgirej 88	Baroni 90	Savage 88C
$N(1680 F_{15})^0$	Zhokin 89	Kozma 90	^{15}Nit
$N(1700 B)^+$	Batyunya 87F	Kozma 88	Baroni 90
		Avdejchikov 87	Ramello 88
		Avdejchikov 87B	Ardito 87
		Avdejchikov 87C	Redwine 86
		Avdejchikov 87E	Seestrommorr 85
		Avdejchikov 87F	Turley 85
		Avdejchikov 87G	^{16}Nit
		Avdejchikov 87I	Hasinoff 89
		Sangster 87	Hasinoff 88
		Manosov 86C	
		Ballagh 86	
		Baltay 86	
		Marage 86	
$N(1880 F_{15})^+$	Azhgirej 88	^{18}Ne	neutral
$N(1880 F_{15})^0$	Zhokin 89	Williams 89B	2γ
$N(1700 B)^+$	Batyunya 87F	^{24}Na	Tsuchiaki 90
		Kozma 90B	Aulchenko 86
			Blinov 86B

ω	ω	p	p	
$e^- e^+$	Dolinsky 89B Aulchenko 86B	Bourdarios 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	$\mu^- \mu^+ e^+$ Phillips 89	
$\eta \gamma$	Dolinsky 89 Dolinsky 88B Aulchenko 86B Landsberg 86	$\eta \mu^+$ Hirata 89B Phillips 89 Barloutaud 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	ωe^+ Hirata 89B Barloutaud 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	
$\mu^- \mu^+$	Abreu 89 Albajar 88C	$K^*(892)^+ \nu$ Haines 86 Blewitt 85 Park 85B	$\omega \mu^+$ Hirata 89B Phillips 89 Barloutaud 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	
$\pi^+ 2\pi^0 \pi^-$	Kurdadze 86	$K^*(892)^+ \bar{\nu}$ Berger 89 Hirata 89B Barloutaud 88 Bourdarios 88 Barloutaud 87	$\pi \ell$ Bareyre 86	
$\pi^+ \pi^- \gamma$	Bituyukov 87	$K^+ \nu$ Phillips 89 Haines 86 Blewitt 85 Park 85B	$\pi^+ \bar{\nu}$ Berger 89 Hirata 89B Barloutaud 88 Bourdarios 88 Barloutaud 87	
$\pi^+ \pi^-$	Banerjee 86C	$K^+ \bar{\nu}$ Berger 89 Hirata 89B Totsuka 89 Totsuka 89B Barloutaud 88 Bourdarios 88 Hirata 88D Barloutaud 87 Haines 86 Krishnaswamy 86	$\pi^+ \pi^- e^+$ Phillips 89	
$\pi^+ \pi^0 \pi^-$	Albrecht 90E Agababyan 89 Anjos 89B Aston 89B Barkov 89 Berger 89 Busennitz 89 Dolinsky 89B Mallik 89B Phillips 89 Wittek 89 Ajaltouni 88B Albrecht 88P Albrecht 88S Aston 88G Augustin 88B Augustin 88C Batyunya 88B Brau 88 Falvard 88 Gan 88 Jousset 88 Landsberg 88 Sedlak 88 Seidel 88 Vasserman 88 Adamus 87B Adamus 87E Albrecht 87J Albrecht 87K Aleshin 87C Aleshin 87D Aulchenko 87 Aulchenko 87C Baringer 87 Barkov 87 Barkov 87C Batyunya 87E Bisello 87 Ferguson 87 Kolanoski 87 Lamm 87 Toki 87 Aleshin 86B Arneodo 86D Atkinson 86B Aulchenko 86B Aulchenko 86C Batyunya 86D Atkinson 85 Baltrusaitis 85G Chakrabarti 85	$\Omega^*(\text{unspec})^-$ $\Omega^- \pi^+ \pi^-$ $\Xi(1530 P_{13})^0 K^-$ Aston 88E Aston 87 Biagi 86B $\Xi^- K^- \pi^+$ Biagi 86B	$K^0 e^+$ Hirata 89B Barloutaud 88 Bourdarios 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	$\pi^0 \mu^+$ Hirata 89B Barloutaud 88 Bourdarios 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B
	Ω^-	$K^0 \mu^+$ Hirata 89B Totsuka 89B Barloutaud 88 Bourdarios 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	$\rho^+ \nu$ Seidel 88 Haines 86 Blewitt 85 Park 85B	
	ΛK^-	$K^0 \mu^+$ Hirata 89B Totsuka 89B Barloutaud 88 Bourdarios 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	$\rho^+ \bar{\nu}$ Berger 89 Barloutaud 88 Bourdarios 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	
	Ω_c	$\rho^0 e^+$ Phillips 89 Krishnaswamy 86	$\rho^0 \mu^+$ Barloutaud 88 Bourdarios 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	
	$\Xi^- K^- 2\pi^+$	$\text{meson } \ell$ Park 85	$\rho^0 e^+$ Barloutaud 88 Bourdarios 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	
	$\omega_3(1670)$	$\mu^+ \gamma$ Seidel 88 Haines 86 Blewitt 85 Park 85B	$\rho^0 \mu^+$ Phillips 89 Barloutaud 88 Seidel 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B	
	$b_1(1235)^+ \pi^-$	$\mu^- 2\mu^+$ Phillips 89 Barloutaud 88 Bourdarios 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B		
	$b_1(1235)^- \pi^+$			
	$\bar{\Omega}^+$			
	$\bar{\Lambda} K^+$			
	p			
$\pi^0 e^- e^+$	$2\pi^+ \mu^-$ Phillips 89			
	3ℓ Park 85			
	$e^+ \gamma$ Seidel 88 Haines 86 Blewitt 85 Park 85B			
	$e^- 2e^+$ Barloutaud 88 Bourdarios 88 Barloutaud 87 Haines 86 Blewitt 85 Park 85B			
$\pi^0 \gamma$	ηe^+ Hirata 89B Barloutaud 88			

p

φ

P	100Pd	φ	φ
X Meyer 85F	100Cd 2e ⁻ Barabash 89B		
p(spect)	Ph Baroni 90		
	30Ph 30Si e ⁺ ν _e Wichecks 87		
	φ		
	Albrecht 90 Alvarez 90 Anjos 90B Bai 90 Barlag 90C Hamann 90 Adler 89E Albrecht 89S Alder 89 Averill 89 Avery 89B Barlag 89B Baru 89 Brower 89 Chen 90B Chiba 89 Danilov 89 Halling 89 Jensen 89 Klein 89C Kopke 89 Landsberg 89 Lockman 89 Mallik 89B Marshall 89 Mattig 89 Miller 89 Nagy 89 Pitman 89 Schindler 89 Toki 89B Wasserbaech 89 Wormser 89 Adler 88F Ajaltouni 88B Albrecht 88L Albrow 88 Anjos 88C Anjos 88G Barlag 88C Chan 88 Chiba 88 Coffinan 88 Diekmann 88 Jusset 88 Landsberg 88 Levy 88 Mir 88 Schindler 88 Thornlike 88 Toki 88B Albrecht 87R Avery 87 Baru 87 Becker 87C Brient 87 Chiba 87B Gittelman 87 Hofmann 87B Longacre 87 Luth 87 Prokoshkin 87B Prokoshkin 87C Schindler 87 Albrecht 86F Ammosov 86 Armstrong 86 Armstrong 86D Baltrusaitis 86 Baltrusaitis 86D Banerjee 86 Bebek 86 Booth 86 Haas 86	Jung 86 Königsman 86 Longacre 86B Stockhausen 86 Tomaradze 86 Agularbenit 85C Aihara 85D Akesson 85F Albrecht 85M Atkinson 85B Atkinson 85F Augustin 85B Augustin 85C Augustin 85D Augustin 85E Baltrusaitis 85B Baltrusaitis 85F Behrends 85 Bitukov 85 Booth 85 Coward 85 Dainton 85 Etkin 85 Jeanmarie 85 Schindler 85 Torres 85 Tsukerman 85B Georgiopoulos 84	Augustin 88C Bitukov 88 Eddberg 88 Etkin 88 Falvard 88 Schmitz 88 Shipbaugh 88B Adamus 87 Ajinenko 87B Albrecht 87D Albrecht 87E Albrecht 87N Albrecht 87S Anjos 87C Asratyan 87 Asratyan 87C Barlow 87 Benayoun 87B Bitukov 87 Blaylock 87 Braunschweig 87B Csorna 87B Ginther 87 Landsberg 87 Naroska 87 Raab 87 Shipbaugh 87 Toki 87 Wasserbaech 87 Althoff 86D Asratyan 86 Asratyan 86B Aston 86B Bartoletto 86 Bisello 86 Bisello 86B Bitukov 86 Bitukov 86B Davenport 86 Dijkstra 86 Dijkstra 86C Dijkstra 86D Frame 86 Green 86 Schindler 86 Toki 86 Albrecht 85B Albrecht 85D Albrecht 85G Atkinson 85F Bartel 85G Derrick 85C
Pb	Antipov 89C Efendiev 89 Underwood 89 Capraro 87 Carlsmith 87 Carlsmith 86 Huston 86 Marx 86 Peterson 86 Sokoloff 86 Zielinsky 86 Antipov 85 Zajmidoroga 85	2π ⁺ π ⁰ 2π ⁻ Barkov 88 2π ⁰ γ Dolinsky 89 Druzhinin 88 a ₀ (980) ⁰ γ Druzhinin 85 η e ⁻ e ⁺ Dolinsky 89 Landsberg 86 Golubev 85 η γ Dolinsky 89 Aulchenko 86B Landsberg 86 η π ⁰ γ Dolinsky 89 Aulchenko 87C Aulchenko 86C π ⁺ γ Dolinsky 89 Druzhinin 88 Aulchenko 86B Druzhinin 85 f ₀ (975) γ Dolinsky 89 Druzhinin 85 γ axion Druzhinin 88 Aulchenko 86C γ higgs Druzhinin 88 γ unspec Dolinsky 89 K ⁺ K ⁻ Alvarez 90C Bisello 90 Bortoletto 90 Agabayyan 89 Agularbenit 89 Aleev 89C Anjos 89B Armstrong 89B Baglin 89C Busennitz 89 Chen 89C Wormser 89B Aihara 88B Aihara 88B Albrecht 88J Albrecht 88K Anjos 88D Ashmau 88C Aston 88I Aston 88J	K _S K _L Bisello 90 Dolinsky 89B Augustin 88C Sedlak 88 Asratyan 87C Aulchenko 87B Barkov 87B Vaserman 86 Barkov 85B Druzhinin 85 μ ⁻ μ ⁺ Abreu 89 Albajar 88C π ⁺ π ⁻ Dolinsky 89 Lamm 87 Golubev 86 Druzhinin 85 π ⁺ π ⁰ π ⁻ Barkov 89 Dolinsky 89B Druzhinin 85 π ⁰ e ⁻ e ⁺ Dolinsky 89 Dolinsky 88 π ⁰ γ Dolinsky 89 Aulchenko 86B Landsberg 86
Pb*	Apokin 86D		
199Pb	Butsev 85		
199Pb	Butsev 85		
200Pb	Butsev 85		
201Pb	Butsev 85		
202Pb	Butsev 85		
202Pb*	Butsev 85		
203Pb	Butsev 85		
204Pb*	Butsev 85		
208Pb	Abov 89 Lee 88 Kreissl 87 Bonin 86 Mermaz 86 Delaat 85 Morsch 85		
P(spect)	Batyunya 87G Batyunya 84		
Pd	Kozma 90		
100Pd	100Cd 2e ⁻ 2ν _e Barabash 89B 100Cd 2e ⁻ majoron Barabash 89B		

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

$\phi(1680)$

<p>$\phi(1680)$</p> <p>$K^*(892)^0 K^- \pi^+$ Atkinson 85F</p> <p>$\bar{K}^*(892)^0 K^+ \pi^-$ Atkinson 85F</p> <p>$K^+ K^-$ Atkinson 85D</p>	<p>π^+</p> <p>$e^+ X$ Britton 88</p> <p>$e^- 2e^+ \nu_e$ Egli 89 Egli 86</p> <p>$\mu^+ \text{heavy-}\nu_\mu$ Daum 87</p> <p>$\mu^+ \nu_\mu \gamma$ Bryman 86</p> <p>$\mu^+ \nu_\mu$ Numao 89 Bernardi 88 Britton 88 Daum 87 Bryman 86 Bryman 86B Abrosimov 85 Andreev 85 Bernardi 85</p> <p>$\mu^- 2e^+ \nu_e$ Korenchenko 87</p> <p>$\pi^0 e^+ \nu_e$ McIarlane 87</p>	<p>π^0</p> <p>3γ Tsukerman 85 Aihara 84F Borisov 84</p> <p>4γ McDonough 88 Bolotov 86</p> <p>$e^- e^+ \gamma$ Abachi 89B Landsberg 86 Landsberg 85</p> <p>$e^- e^+$ Littenberg 89 Niebuhr 89 Hsing 88 Landsberg 86 Landsberg 85</p> <p>$\mu^+ e^-$ Littenberg 89 Campagnari 88</p> <p>$\nu \bar{\nu}$ Littenberg 89</p> <p>$\nu_e \bar{\nu}_e$ Hoffman 88</p> <p>$\nu_\mu \bar{\nu}_\mu$ Hoffman 88 Dorenbosch 87</p> <p>$\nu_\tau \bar{\nu}_\tau$ Hoffman 88</p> <p>positronium γ Afanasyev 90 Afanasyev 90B</p>	<p>positronium</p> <p>Orito 89 Amaldi 85</p> <p>positronium*</p> <p>2γ Borzakov 90</p> <p>Pr</p> <p>Kozma 90 Kozma 88</p> <p>186Pr*</p> <p>Butsev 85</p>
<p>$\phi_s(1850)$</p> <p>$K^+ K_S \pi^-$ Aston 88D Aston 88I Aston 88J Aston 86B</p> <p>$K_S K^- \pi^+$ Aston 88D Aston 88I Aston 88J</p>	<p>π^0</p> <p>2γ Alde 90 Pare 90 Abraamya 89 Adler 89E Alde 89 Anaglobeli 89 Apokin 89 Barnikov 89B Boumeur 89 Busenitz 89 Dolinsky 89 Dolinsky 89B Glavanakov 89 Abraamyan 88 Adiels 88 Ajaltouni 88 Alde 88B Alde 88C Alde 88E Augustin 88C Batusov 88C Bielenin 88 Bonner 88B Boutemour 88 Dolinsky 88B Fujisaki 88 Gidal 88C Keh 88B Williams 88 Adler 87B Alde 87C Antreasyan 87 Asratyan 87B Aulchenko 87B Banaigs 87 Berger 87B Demarzo 87B Glavanakov 87 Okhrimenko 87 Alde 86B Alde 86D Althoff 86 Apokin 86B Apokin 86C Apokin 86D Auge 86 Ballagh 86 Glavanakov 86 Landsberg 86 Ukhanov 86B Apel 85 Atherton 85 Baranov 85 Chakrabart 85 Landsberg 85</p>	<p>$\pi_2(1670)^-$</p> <p>$\rho^0 \pi^-$ Bellini 84 Cassata 88 Antipov 86C</p> <p>$\pi_2(1670)^0$</p> <p>$3\pi^0$ Chapin 85 Bielenin 88</p> <p>$f_2(1270) \pi^0$ Gidal 88C</p> <p>$\pi^+ \pi^0 \pi^-$ Behrend 89G Feindt 89</p> <p>atom($\pi\mu$)</p> <p>$\pi^+ \mu^-$ Aronson 86</p> <p>$\pi^- \mu^+$ Aronson 86</p> <p>$\pi\pi(L=0)$</p> <p>$\pi^+ \pi^-$ Ando 86</p> <p>positronium</p> <p>0γ neutral (neutrals) Afanasyev 90 Afanasyev 90B Atoyan 89</p> <p>2γ Ivanov 87</p> <p>3γ Atoyan 90 Tsuchiaki 90 Atoyan 89 Ginenko 89 Westbrook 87</p> <p>γ axion Atoyan 90 Ginenko 89 Orito 89</p> <p>γ longlived Amaldi 85</p> <p>γ neutral Atoyan 90 Ginenko 89</p>	<p>$\psi(2S)$</p> <p>$2\eta \gamma$ Lee 85B</p> <p>$2\pi^+ 2\pi^- \gamma$ Mir 89 Schindler 87</p> <p>$2\pi^+ \pi^0 2\pi^-$ Toki 89</p> <p>$2\pi^0 \gamma$ Lee 85B</p> <p>$3\pi^+ 3\pi^- \gamma$ Mir 89 Schindler 87</p> <p>$\chi_{c0}(1P) \gamma$ Mir 89 Schindler 87</p> <p>$\chi_{c1}(1P) \gamma$ Mir 89 Schindler 87</p> <p>$\chi_{c2}(1P) \gamma$ Mir 89 Schindler 87</p> <p>$e^- e^+ 2\gamma$ Mir 89</p> <p>$e^- e^+$ Schuhert 89</p> <p>$\eta' \gamma$ Lee 85B</p> <p>$\eta' \gamma$ Lee 85B</p> <p>γX Konigsmann 86</p> <p>$J/\psi(1S) 2\gamma$ Mir 89</p> <p>$J/\psi(1S) 2\pi^0$ Schindler 87</p> <p>$J/\psi(1S) \eta$ Mir 89 Schindler 87</p> <p>$J/\psi(1S) \gamma$ Schindler 87</p> <p>$J/\psi(1S) \pi^+ \pi^-$ Mir 89 Schubert 89 Toki 89 Jani 87 Schindler 87 Barate 86B</p> <p>$J/\psi(1S) \pi^0$ Schindler 87</p> <p>$\ell^+ \ell^-$ Alexander 90</p> <p>$\mu^- \mu^+ 2\gamma$ Mir 89</p> <p>$\mu^- \mu^+$ Mishra 90 Schubert 89 Barate 86B</p> <p>$\pi^+ \pi^- 2\gamma$ Toki 89</p> <p>$\pi^+ \pi^- \mu^- \mu^+$ Mir 89</p>
<p>photino</p> <p>Akesson 90B Sakai 90 Adachi 89 Adachi 89B Albajar 89B Alitti 89 Decamp 89D Sakai 89 Steele 89 Behrend 88E Gan 88 Hearty 88 Kamae 88 Plathowbesch 88 Takahashi 88 Yamauchi 88 Fernandez 87C Leclaire 87 Repellin 87 Wu 87 Albrecht 86C Bartha 86 Ford 86 Bartel 85D Bartel 85F Coopersarkar 85B</p> <p>γ goldstino Abe 89F Bartel 85C</p> <p>γ higgsino Abe 89F Ansari 87D</p> <p>γ sparticle Behrend 87</p>	<p>π^+</p> <p>$e^+ \nu_e$ axion Davier 87 Korenchenko 87</p> <p>$e^+ \nu_e \gamma$ Numao 89 Bay 86 Bryman 86 Pillonon 86</p> <p>$e^+ \nu_e$ higgs Egli 89</p> <p>$e^+ \nu_e$ majoron Britton 88</p> <p>$e^+ \nu_e$ neutral Eichler 86</p> <p>$e^+ \nu_e \nu \bar{\nu}$ Britton 88</p> <p>$e^+ \nu_e \nu$ Picciotto 88</p> <p>$e^+ \nu_e$ Numao 89 Bernardi 88 Picciotto 88 Azuelos 86 Bryman 86 Bryman 86B</p>	<p>positronium γ Afanasyev 90 Afanasyev 90B</p>	<p>positronium*</p> <p>2γ Borzakov 90</p> <p>Pr</p> <p>Kozma 90 Kozma 88</p> <p>186Pr*</p> <p>Butsev 85</p>

$\psi(2S)$

ρ^+

<p>$\psi(2S)$</p> <p>$\pi^+ \pi^0 \pi^-$ Mir 89 Toki 89</p> <p>$\rho \pi$ Mir 89</p> <p>$\rho^+ \pi^-$ Toki 89</p> <p>$\rho^- \pi^+$ Toki 89</p> <p>$\rho^0 \pi^0$ Toki 89</p>	<p>$\psi(3770)$</p> <p>$K^+ K^- 3\pi^+ 3\pi^-$ Adler 88F</p> <p>$K^+ K^- \pi^+ 2\pi^0 \pi^-$ Adler 88F</p> <p>$K^+ K^- \pi^+ \pi^-$ Adler 88F</p> <p>$K^+ K^- \pi^+ \pi^0 \pi^-$ Adler 88F</p> <p>$K^+ K^0 2\pi^+ 3\pi^-$ Adler 88F</p> <p>$K^+ K^0 \pi^+ 2\pi^-$ Adler 88F</p> <p>$K^+ K^0 \pi^+ \pi^0 2\pi^-$ Adler 88F</p> <p>$K^- 2\pi^+ \pi^-$ Adler 88F</p> <p>$\tau^- \tau^+$ Adler 87B Stockhausen 87B Baltrusaitis 85J</p>	<p>η</p> <p>Yoshida 87 Albrecht 86 Behrend 86C Matis 86 Abachi 85 Albrecht 85F Banner 85 Bartel 85F Coopersarkar 85B Peterson 85 Rowson 85 Bender 84C Bondar 84 Sagawa 86</p> <p>2hadron (hadrons) Sagawa 86</p> <p>charged X Maki 88B Tao 88</p> <p>$e^\pm X$ Igarashi 87</p> <p>hadron (hadrons) Braunschweig 89E</p> <p>hadron⁺ X Kesten 85</p> <p>hadron⁻ X Kesten 85</p> <p>jet Kim 89C Berger 85H Derrick 85G</p> <p>$\mu^\pm X$ Igarashi 87</p>	<p>$\bar{\eta}$</p> <p>Bondar 84</p> <p>2hadron (hadrons) Sagawa 88</p> <p>$e^\pm X$ Igarashi 87</p> <p>jet Berger 85H Derrick 85G</p> <p>$\mu^\pm X$ Igarashi 87</p>
<p>$\psi(3770)$</p> <p>$2\pi^0 \gamma$ Alexander 90</p> <p>$X_{c0}(1P) \gamma$ Augustin 85E</p> <p>$X_{c1}(1P) \gamma$ Schindler 88 Gaiser 85</p> <p>$X_{c2}(1P) \gamma$ Schindler 88 Gaiser 85</p> <p>$D^+ D^-$ Adler 89E Browder 89 Dejongh 89 Adler 88 Grab 88 Izen 88 Adler 87 Brient 87 Schindler 87 Stockdale 87 Wasserbaech 87 Baltrusaitis 86D Baltrusaitis 86E Schindler 86 Baltrusaitis 85B Baltrusaitis 85D Coward 85 Schindler 85</p>	<p>$\psi(4040)$</p> <p>2hadron (hadrons) Osterheld 86</p> <p>$\psi(4180)$</p> <p>2hadron (hadrons) Schindler 87 Osterheld 86</p> <p>$\psi(4415)$ Osterheld 86</p> <p>Pt Zdesenko 86</p> <p>^{196}Pt Zdesenko 86</p> <p>^{239}Pu Zdesenko 86</p> <p>$^{235}\text{U } ^4\text{He } 2\gamma$ Borzakov 90</p> <p>$^{235}\text{U } ^4\text{He positronium}^*$ Borzakov 90</p>	<p>η'</p> <p>γb Ogawa 89</p> <p>γq Behrend 86C</p> <p>q gluon Behrend 86C</p> <p>$\bar{\eta}'$ Behrend 86C</p> <p>$\gamma \bar{b}$ Ogawa 89</p>	<p>Rb Kozma 90 Kozma 88</p> <p>^{81}Rb Butsev 85</p> <p>$^{81}\text{Rb}^*$ Butsev 85</p> <p>Re Kozma 90 Kozma 88</p> <p>Rh Kozma 90 Kozma 88</p> <p>$\rho(1450)^0$ Diekmann 88 Barkov 85</p> <p>$\eta \pi^+ \pi^-$ Takamatsu 89</p> <p>$\omega \pi^0$ Dolinsky 89B</p> <p>$\pi^+ \pi^-$ Druzhinin 86</p> <p>$\rho(1700)$ Diekmann 88</p>
<p>$D^0 \bar{D}^0$ Adler 89 Adler 89C Adler 89D Adler 89E Browder 89 Dejongh 89 Wasserbaech 89 Adler 88B Grab 88 Izen 88 Schindler 88 Adler 87 Becker 87B Brient 87 Grab 87 Schindler 87 Stockhausen 87 Wasserbaech 87 Baltrusaitis 86D Baltrusaitis 86E Baltrusaitis 85B Baltrusaitis 85D Coward 85 Schindler 85</p> <p>$\eta_c(1S) \gamma$ Gaiser 85</p> <p>γX Gaiser 85</p> <p>$J/\psi(1S) \gamma$ Gaiser 85</p> <p>$J/\psi(1S) \pi^+ \pi^-$ Schindler 88</p> <p>$K^+ 2K^- \pi^+$ Adler 88F</p> <p>$K^+ K^- 2\pi^+ 2\pi^-$ Adler 88F</p> <p>$K^+ K^- 2\pi^+ \pi^0 2\pi^-$ Adler 88F</p>	<p>q</p> <p>Abreu 90F Sakai 90 Abe 89J Adachi 89 Adachi 89B Alitti 89 Barbarogalti 89 Bowcock 89B Calloway 89 Decamp 89E Eno 89B Eno 89C Gilman 89 Low 89 Meier 89 Myung 89 Pitzl 89 Sakai 89 Shaw 89 Allasia 88B Behrend 88C Hoffmann 88 Kamae 88 Kim 88 Matis 88 Plotowbesch 88 Shirai 88 Takahashi 88 Unno 88 Amako 87 Ansari 87B Ansari 87D Behrend 87 Behrend 87C Cenci 87 Gerber 87 Lyons 87 Repellin 87 Shaw 87</p>	<p>$\gamma \bar{b}$ Ogawa 89</p> <p>$\bar{\eta}$ Behrend 86C</p> <p>$\gamma \bar{b}$ Ogawa 89</p> <p>$\bar{\eta}$</p> <p>Abreu 90F Abe 89J Adachi 89 Adachi 89B Alitti 89 Barbarogalti 89 Bowcock 89B Decamp 89E Eno 89B Eno 89C Gilman 89 Low 89 Meier 89 Myung 89 Pitzl 89 Sakai 89 Shaw 89 Behrend 88C Kamae 88 Kim 88 Oulasaada 88B Shirai 88 Takahashi 88 Amako 87 Ansari 87B Ansari 87D Behrend 87 Behrend 87C Cenci 87 Repellin 87 Yoshida 87 Albrecht 86 Behrend 86C Bartel 85F Coopersarkar 85B Rowson 85 Bender 84C</p>	<p>$\rho(1700)^0$ Chapin 85</p> <p>$\eta \pi^+ \pi^-$ Takamatsu 89</p> <p>$\omega \pi^0$ Dolinsky 89B</p> <p>$\pi^+ \pi^-$ Soldnerrembo 87</p> <p>$\rho^+ \pi^0 \pi^-$ Atkinson 84F</p> <p>$\rho^- \pi^+ \pi^0$ Atkinson 84F</p> <p>$\rho^0 \eta$ Atkinson 85C</p> <p>$\rho^0 \pi^+ \pi^-$ Atkinson 84F</p> <p>ρ</p> <p>Bortoletto 89 Efendiev 89 Mir 89 Wormser 89B Anjos 88D Atkinson 88 Brau 88 Hitlin 88 Mir 88 Hoffmann 87B Kolanoski 87 Augustin 85E Tsukerman 85B</p> <p>2π Bebek 87B Berger 87B Toki 87</p> <p>ρ^+ Earlag 90C Abachi 89B Aguilarbenit 89 Bernd 89H Bisello 89</p>

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

ρ^+ ρ^0

ρ^+	ρ^-	ρ^0	ρ^0
Danilov 89 Halling 89 Hayes 89 Kopke 89 Landsberg 89 Albrecht 88M Albrecht 88O Atkinson 88 Ballar 88 Barish 88 Barloutaud 88 Bourdarios 88 Coffman 88 Gan 88 Levy 88 Seidel 88 Toki 88B Albrecht 87C Albrecht 87I Albrecht 87T Barloutaud 87 Bebek 87B Blinov 87C Brient 87 Csorna 87 Ford 87B Schindler 87 Skwarnicki 87B Stockhausen 87B Toki 87 Baltrusaitis 86B Haines 86 Lowe 86C Augustin 85C Augustin 85D Baltrusaitis 85F Blewitt 85 Coward 85 Park 85B Rosner 85E Schindler 87 Schindler 85	Kopke 89 Kreinick 89 Landsberg 89 Miller 89 Riles 89 Riles 89B Stoker 89 Zhokin 89 Albrecht 88M Albrecht 88O Atkinson 88 Barish 88 Barloutaud 88 Bourdarios 88 Coffman 88 Gan 88 Levy 88 Seidel 88 Toki 88B Barloutaud 87 Bebek 87B Blinov 87C Brient 87 Csorna 87 Ford 87B Schindler 87 Stockhausen 87B Toki 87 Baltrusaitis 86B Haines 86 Lowe 86C Augustin 85C Augustin 85D Baltrusaitis 85F Coward 85 Park 85B Rosner 85E Schindler 87 Ammosov 87C	Bisello 89 Bortoletto 89 Browder 89 Chiba 89 Danilov 89 Dejongh 89 Drell 89 Halling 89 Hirata 89B Jensen 89 Kopke 89 Landsberg 89 Marshall 89 Mattiag 89 Nagy 89 Schindler 89 Zhokin 89 Adiels 88 Albrecht 88M Aston 88I Atkinson 88 Barloutaud 88 Bisello 88 Bourdarios 88 Chiba 88 Coffman 88 Danilov 88 Gan 88 Haas 88 Levy 88 Thorndike 88 Toki 88 Toki 88B Adamus 87B Adamus 87E Albrecht 87C Albrecht 87R Avery 87 Barloutaud 87 Batyunya 87F Bebek 87B Blinov 87C Brient 87 Chiba 87B Fredriksson 87 Prokoshkin 87C Althoff 86D Armstrong 86D Aston 86B Atkinson 86 Baltrusaitis 86 Baltrusaitis 86B Bogolyubsky 86E Haines 86 Konigsmann 86 Odel 86 Agababyan 85B Alasia 85B Atkinson 85C Augustin 85C Augustin 85D Baldin 85 Baltrusaitis 85F Barkov 85 Behrends 85 Berge 85D Blewitt 85 Cassel 85 Coward 85 Jeanmarie 85 Knyazev 85 Kolanoski 85 Park 85B Rosner 85E Schindler 85 Achasov 84F	Antipov 89 Bannikov 89B Albajar 88C Antipov 88 Antipov 88E Antipov 86C Dolinsky 89B Aulchenko 87C Kurdadze 86 Dolinsky 89 Vasserman 87B Aulchenko 86B Albrecht 90 Albrecht 90E Arefev 90B Bityukov 90 Abachi 89D Adler 89D Adler 89E Agababyan 89 Aguliarbenit 89 Ajmenko 89B Armstrong 89C Armstrong 89E Berger 89 Bityukov 89 Breakstone 89 Chen 89C Coffman 89 Dieter 89 Joyner 89 Mallik 89B Nakai 89 Phillips 89 Schubert 89 Toki 89 Wittek 89 Wormser 89B Adler 88D Aihara 88 Aihara 88B Ajaltouni 88B Ammosov 88C Angelopoulos 88B Anjos 88D Armstrong 88 Ashman 88C Augustin 88B Augustin 88C Bannikov 88 Batyunya 88B Berger 88B Braunschweig 88F Cassata 88 Edberg 88 Fukui 88 Jouset 88 Liu 88 Mir 88 Schmitz 88 Sedlak 88 Seidel 88 Adler 87 Aihara 87 Ajmenko 87B Albrecht 87J Albrecht 87M Albrecht 87S Ammosov 87 Antos 87 Aston 87B Bailey 87C Batyunya 87J Benayoun 87B Berger 87B Ferguson 87 Ford 87 Gerdyukov 87 Kolanoski 87 Lamm 87
$\pi^+ \gamma$ $\pi^+ \pi^0$	$\pi^0 \pi^-$	$2\pi^+ 2\pi^-$ $\eta \gamma$ $\mu^- \mu^+$	$\omega \pi^0$ $\pi^+ 2\pi^0 \pi^-$ $\pi^+ \pi^- \gamma$ $\pi^+ \pi^-$
Huston 86 Albrecht 90E Agababyan 89 Albrecht 89F Behrend 89 Berger 89 Feindt 89 Phillips 89 Toki 89 Wittek 89 Angelopoulos 88B Augustin 88B Danilov 88 Liu 88 Schmitz 88 Sedlak 88 Tschirhart 88 Adamus 87B Adamus 87E Adler 87 Adler 87 Adler 87 Batyunya 87E Ferguson 87 Ford 87 Marage 87 Skwarnicki 87B Aleshin 86B Banerjee 86C Batyunya 86D Landsberg 86 Atkinson 85 Chen 85 Atkinson 84F	Albrecht 90E Abachi 89B Albrecht 89F Behrend 89 Feindt 89 Toki 89 Wittek 89 Angelopoulos 88B Augustin 88B Ballar 88 Danilov 88 Liu 88 Schmitz 88 Sedlak 88 Tschirhart 88 Adamus 87B Adamus 87E Adler 87B Aleshin 87 Batyunya 87E Capraro 87 Daftari 87 Ferguson 87 Ford 87 Marage 87 Skwarnicki 87B Aleshin 86B Banerjee 86C Batyunya 86D Landsberg 86 Yelton 86 Atkinson 85 Blazey 85 Chen 85 Heppelman 85 Atkinson 84F	Barlag 90C Albrecht 89L Albrecht 89S Albrecht 89T Armstrong 89F Avery 89B	Dolinsky 89 Aulchenko 86B Landsberg 86 Abru 89

ρ^0

ρ^0	Naroska 87 Soldnerrembo 87 Toki 87 Wittek 87 Aleshin 86B Ammosov 86D Ammosov 86E Ammosov 86G Ammosov 86H Arefev 86B Arneodo 86D Aulchenko 86B Banerjee 86C Batyunya 86D Benayoun 86 Bridges 86D Kozlovsky 86 Abe 85 Aubert 85C Batyunya 85B Derrick 85F Grassler 85 Landsberg 85 Atkinson 84F	36S $e^- X$ 36S Sb 116Sb 116Sb 120Sb 122Sb 124Sb Sc 42Sc 43Sc 44Sc 46Sc 47Sc 48Sc Se Se* 73Se 76Se 76Se 76Se 36S 36Cl $e^- \bar{\nu}_e$	Apalikov 85 Simpson 89 Schaller 85 Kozma 90 Kozma 88 Arakelyan 90 Arakelyan 90 Arakelyan 90 Arakelyan 90 Arakelyan 90 Kozma 90 Kozma 88 Hardy 89 Kozma 88B Kozma 86 Kozma 88B Alektett 87 Kozma 86 Hufner 85 Kozma 88B Alektett 87 Kozma 86 Michel 85 Kozma 88B Kozma 86 Michel 85 Morales 88 Butsev 85 Barabash 89B Fisher 89 Vasenko 89 Caldwell 88 Nakamura 88 Rosen 88 Vasenko 88 Avignone 87 Caldwell 87 Fisher 87 Avignone 86B Bellotti 86 Caldwell 86 Avignone 85	76Se 82Se 82Kr $2e^- 2\bar{\nu}_e$ 82Kr $2e^-$ majoron 82Kr $2e^-$ 88Se 88Kr $2e^- 2\bar{\nu}_e$ \bar{e} e^\pm photino \bar{e}^+ e^+ photino e^+ photino e^- photino \bar{e}^- e^- photino shower	Caldwell 85 Zdenenko 85 Barabash 89B Nakamura 88 Rosen 88 Elliott 87 Elliott 87B Barabash 89B Caldwell 88 Nakamura 88 Elliott 87 Barabash 89B Nakamura 88 Elliott 86 Marti 85 Caldwell 88 Wu 87 Adachi 89 Adeva 89B Akray 89E Stubenrauch 89 Kamae 88 Yamauchi 88 Fernandez 87C Wu 87 Arnison 85D Akesson 90B Sakai 90 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C Sakai 90 Adeva 89B Akray 89E Steele 89 Stubenrauch 89 Kamae 88 Yamauchi 88 Wu 87 Arnison 85D Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C Adamovich 90 Ahmad 90 Antreev 90B Antonchik 90 Brick 90	shower ⁻ Gill 90 Haines 90 Jain 90 Tariq 90 Abduzhamilov 89 Adamovich 89 Adamovich 89B Aliev 89 Ameeva 89 Ammar 89B Andersen 89 Andreeva 89 Bartke 89 Bellotti 89E Bhattacharje 89 Brick 89 Dyakonov 89 Ghosh 89B Ghosh 89C Lepekhin 89 Singh 89 Tannenbaum 89 Abduzhamilov 88B Abduzhamilov 88C Adamovich 88 Adamovich 88B Adamovich 88C Adamovich 88D Ammar 88 Andreeva 88 Barbier 88 Barbier 88B Barnes 88 Bonnetbaud 88 Boos 88B Dingus 88 Dingus 88B Jain 88 Khan 88 Krasnov 88 Krasnov 88B Otterlund 88 Ren 88 Shivpuri 88B Singh 88 Tret'yakova 88 Vashevich 88 Vokal 88 Abdurazakova 87 Abduzhamilov 87 Ammosov 87C Bailey 87D Elnaghy 87 Fredriksson 87 Jain 87B Krasov 87 Shivpuri 87 Shivpuri 87B Ahrar 86 Ghosh 86 Holynski 86B Jain 86 Juric 86 Krasnov 86 Shivpuri 86 Voyvodic 86 Avakyan 85F Azimov 85G Babecki 85 Batusov 85 Ismatova 85B Kim 85 Krasinikov 85 Vokalova 85 Muraki 84 Ammosov 87C Ammosov 87C
$\pi^+ \pi^0 \pi^-$	Dolinsky 89 Vasserman 88 Aulchenko 87C Aulchenko 86B Aulchenko 86C	Sc Kozma 90 Kozma 88	e^\pm photino Wu 87			
$\pi^0 \gamma$	Dolinsky 89 Dolinsky 88B Aulchenko 86B	42Sc 42Ca $e^+ \nu_e$ 43Sc	\bar{e}^+ Adachi 89 Adeva 89B Akray 89E Stubenrauch 89 Kamae 88 Yamauchi 88 Fernandez 87C Wu 87 Arnison 85D			
$\rho_s(1690)^0$	2ω $\omega_2(1320)^+ \pi^-$ $\omega_2(1320)^- \pi^+$ $\pi^+ \pi^-$ $\rho^0 \eta$	Baltrusaitis 85G Atkinson 85C Atkinson 85C Bailey 87C Fukui 88	44Sc Kozma 88B Alektett 87 Kozma 86 Hufner 85 46Sc Kozma 88B Alektett 87 Kozma 86 Hufner 85 Michel 85	e^+ photino Akesson 90B Sakai 90 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C		
Ru	Kozma 90	47Sc 48Sc Se Se*	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
100Ru	Wasiliev 90 Alstongarnjo 89 Barabash 89B Barabash 89D Klimenko 89 Alstongarnjo 88 Caldwell 88 Dougherty 88 Krivichich 88 Rosen 88	47Sc 48Sc Se Se*	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
100Ru*		Se Kozma 90 Kozma 88	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
100Ru γ	Barabash 89D	Se* Morales 88	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
103Ru	Hufner 85	73Se 76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
28S	Mordechai 85	76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
28S*	Mordechai 85	76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
32S	Schaller 85	76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
34S	Hardy 89 Schaller 85	76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
36S		76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
36Cl $e^- \bar{\nu}_e$	Altizogzlov 85	76Se	e^- photino Akesson 90B Adachi 89 Adachi 89B Albajar 89B Decamp 89D Sakai 89 Gan 88 Takahashi 88 Ansari 87D Behrend 87 Leclaire 87 Repellin 87 Bartel 85C			
			shower ⁻ Adamovich 90 Ahmad 90 Antreev 90B Antonchik 90 Brick 90	shower ⁺ Ammosov 87C shower ⁻ Ammosov 87C		

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

Si	$\Sigma(1660 P_{11})^+$	$\Sigma_c(2455)^{++}$	$\bar{\Sigma}(1385 P_{13})^-$
Baroni 90 Adeishvili 87 Avdeichikov 87C Rich 87 Vegni 86 Zajmidoroga 85	$\Lambda(1405 S_{01}) \pi^+$ Hemingway 84	Jones 87B	Kopke 89 Albrecht 88I
^{24}Si	$\Sigma(3170 B)^+$ $\pi^- X$ Aston 85	$\Sigma_c(2455)^0$ $\Lambda_c^+ \pi^-$ Aleev 89B Anjos 89 Bowcock 89 Klein 89C Albrecht 88H Klein 88 Batusov 87B Coteus 87 Cumalat 87B Diesburg 87 Jones 87B Voyvodic 86B	$\bar{\Lambda} \pi^-$ Henrard 87 Mikocki 86
Mordechai 85	Σ^+	$\Sigma_c(2510)^{++}$ $\Lambda_c^+ \pi^+$ Batusov 87B	$\bar{\Sigma}(1385 P_{13})^0$ Kopke 89
$^{24}\text{Si}^*$		$\bar{\Sigma}_c(2455)^{--}$ $\bar{\Lambda}_c^- \pi^-$ Albrecht 88H Klein 88 Diesburg 87	$\bar{\Sigma}^+$ Kopke 89 Landsberg 89 Shoemaker 88
Mordechai 85		$\bar{\Sigma}_c(2455)^0$ $\bar{\Lambda}_c^- \pi^+$ Albrecht 88H Klein 88 Diesburg 87	$\bar{\pi} \pi^+$ Henrard 87 Cardello 84
^{28}Si		Σ^0	$\bar{\Sigma}^-$ Kopke 89 Landsberg 89 Shoemaker 88
Beltrami 85B		Σ^0	$\bar{\pi} \pi^-$ Henrard 87
^{30}Si		Σ^0	$\bar{p} \pi^0$ Henrard 87
Wichees 87		Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\bar{\Sigma}(1385 P_{13})^+$	$n \pi^+$ Aleev 86 Bailey 86B Biagi 85 Bitsadze 85B Ajinenko 84C	$\bar{\Lambda}_c^- \pi^+$ Albrecht 88H Klein 88 Diesburg 87	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Frascaria 89 Klein 89C Kopke 89 Mattig 89 Bogolyubsky 88F Abachi 87D Frascaria 87 Prokoshkin 87C	$p \gamma$ Voyvodic 86B Cardello 84	Σ^0	$\bar{\Lambda} \gamma$ Barnes 90
Ajeenkoo 89E Braunschweig 89I Drutskoy 89 Albrecht 88I Henrard 87 Karnaukhov 87 Albrecht 86G Babintsev 86 Banerjee 86B Karnaukhov 86 Mikocki 86 Abe 85B Allasia 85D Aziz 85C	$p \pi^0$ Hessey 89 Kobayashi 87 Biagi 85B	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Ajinenko 89E Braunschweig 89I Drutskoy 89 Albrecht 88I Henrard 87 Karnaukhov 87 Albrecht 86G Babintsev 86 Banerjee 86B Karnaukhov 86 Mikocki 86 Abe 85B Allasia 85D Aziz 85C	Σ^-	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Karnaukhov 86		Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Karnaukhov 86		Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\Sigma(1385 P_{13})^-$	Σ^-	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Kopke 89 Bogolyubsky 88F Abachi 87D Aleev 86 Bailey 86B Aleev 85B Ajinenko 84C	$n \pi^+$ Dalitz 90 Shahbazyan 90 Kopke 89 Marshall 89 Baller 88 Barlag 88C Diekmann 88 Okusawa 88 Shahbazyan 88 Bogolyubsky 87E Drutskoy 87 Karnaukhov 86 Hemingway 84 Koiso 84	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\Lambda \pi^-$	$n e^- \bar{\nu}_e$ Hsueh 88 Zapalac 86 Hsueh 85	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Braunschweig 89I Albrecht 88I Henrard 87 Karnaukhov 87 Albrecht 86C Babintsev 86 Banerjee 86B Karnaukhov 86 Mikocki 86 Abe 85B Allasia 85D Aziz 85C	$n \pi^-$ Biagi 87D Zapalac 86 Wah 85 Cardello 84	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\Sigma^- \pi^0$	$\Sigma_c(2455)^+$ Klein 89C Christenson 85	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\Sigma^0 \pi^-$	$\Sigma_c(2455)^{++}$ $\Lambda_c^+ \pi^+$ Aleev 89B Anjos 89 Bowcock 89 Klein 89C Albrecht 88H Klein 88 Batusov 87 Batusov 87B Coteus 87 Cumalat 87B Diesburg 87	Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Karnaukhov 86		Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
Karnaukhov 86		Σ^0	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\Sigma(1385 P_{13})^0$		$\bar{\Sigma}(1385 P_{13})^+$ Kopke 89 Albrecht 88I Aleev 86	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C
$\Lambda \pi^0$	Frascaria 89 Kopke 89 Henrard 87	$\bar{\Lambda} \pi^+$ Henrard 87 Mikocki 86	$\bar{\Sigma}^0$ Kopke 89 Albrecht 88I Castro 88 Pallin 87 Bachman 86 Ajinenko 84C

μ^-

τ^+

μ^-		s	Albrecht 89S Eno 89B Bartel 87 Pal 86	tachyon⁺	Perepelitsa 87	τ^+		
Sn	Behrend 87 Bartel 85D			tachyon⁻	Perepelitsa 87			
	Petersen 86	\bar{s}		τ^*				
Sn[*]	Apokin 86D		Abreu 90 Akrawy 90D Decamp 90 Albajar 89B Albrecht 89L Albrecht 89S Eno 89B Bartel 87 Pal 86		Kichimi 88			
¹¹⁸Sn γ	Ullmann 85			τ^{*+}				
¹¹⁵Sn	Rapaport 85			$\tau^+ \gamma$	Decamp 90G Kamae 88			
¹¹⁰Sn	Barabash 89B Danovich 89 Norman 87 Bonin 86	\bar{q}	Abreu 90E Dowel 85 Kamae 85 Kichimi 88 Albajar 87B Adeva 85		Akrawy 90G Adachi 89D Yamauchi 88 Bartel 86D Behrend 86		Kim 88B Ko 88 Maki 88 Maki 89B Masuda 88 Mcneil 88 Olsen 88 Ouldsaada 88B Rosenfeld 88 Sakuda 88 Salvini 88 Shirai 88 Sumiyoshi 88 Takahashi 88 Tao 88 Tsuchi 88 Unno 88 Yamauchi 88 Band 87 Bebek 87 Behrend 87 Behrend 87C Cenci 87 Gan 87 Miyamoto 87 Sakai 87 Wu 87	
¹¹⁶Sn[*]	Barabash 89C	2hadron (hadrons)	Behrend 87	τ^{*-}				
¹¹⁸Sn	Ullmann 85	q gluino	Alitti 89 Plochowbesch 88 Ansari 87D	$\tau^- \gamma$	Decamp 90G Kamae 88			
¹²⁴Sn	Ullmann 85	q photino	Sakai 90 Adachi 89 Adachi 89B Alitti 89 Plochowbesch 88 Takahashi 88 Ansari 87D	τ^+	Akrawy 90G Adachi 89D Yamauchi 88 Bartel 86D Behrend 86			
¹²⁴Te $2e^-$ $2\nu_e$	Barabash 89B Rosen 88				Aarnio 90B Abreu 90 Abreu 90C Abreu 90F Adachi 90C Adeva 90B Akrawy 90 Akrawy 90D Akrawy 90E Akrawy 90G Akrawy 90J Akrawy 90K Akrawy 90N Bowcock 90 Decamp 90 Decamp 90G Janssen 90 Kuhlen 90 Nash 90 Abe 89P Abrams 89 Abrams 89B Abrams 89C Adachi 89 Adachi 89B Adachi 89D Akrawy 89E Albajar 89B Burchat 89 Decamp 89B Decamp 89C Decamp 89D Decamp 89G Decamp 89H Eno 89B Felcini 89 Feldman 89 Feldman 89B Hayes 89B Hearty 89 Hegner 89 Kim 89E Krauss 89 Maki 89 Metcalf 89 Nozaki 89 Ogawa 89 Sakai 89 Shaw 89 Stoker 89 Stubenrauch 89 Weinstein 89 Adeva 88 Behrend 88C Kamae 88			
¹²⁴Te $2e^-$ majoron	Barabash 89B							
¹²⁴Te $2e^-$	Barahash 89B Rosen 88 Norman 87							
$\bar{\nu}$		\bar{q}	Abreu 90E Sakai 90 Adachi 89 Alitti 89					
$\ell \nu$	Fernandez 87C Ford 86 Bartel 85F	\bar{q} photino	Adachi 89B Takahashi 88					
ν photino	Behrend 87	star	Boos 88					
$\bar{\nu}$	Albajar 89B	$\bar{\tau}^+$	Adachi 89 Akrawy 89E Yamauchi 88					
$\bar{\nu}_e$ photino	Albajar 89B	$\bar{\tau}^-$	Adachi 89B Decamp 89D Gan 88 Behrend 87					
ν_e photino	Akesson 90B Steele 89 Stubenrauch 89 Adeva 87 Arnison 85D Ansari 87D	τ^+ photino	Akrawy 89E Yamauchi 88					
$\bar{\nu}_e$	Akesson 90B Stubenrauch 89 Adeva 87 Arnison 85D Ansari 87D	τ^- photino	Adachi 89 Adachi 89B Decamp 89D Gan 88 Behrend 87					
$\bar{\mu}$	Adeva 87	strange	Gilman 89 Nagy 89 Bogolyubsky 88B Garutchava 87 Bolonkin 86					
$\bar{\nu}_\mu$	Adeva 87	supernucleus	Batusov 85B					
sparticle	Barklow 90 Akrawy 89E Sakai 89 Yamauchi 88 Behrend 87	supernucleus γ	Norman 87B					
s	Akrawy 90D Decamp 90 Albajar 89B Albrecht 89L	Ta	Zajmidoroga 85					

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

τ^+ τ^+

τ^+	$2\pi^+ \pi^- \pi$ (π^0 's) $\bar{\nu}_\tau$ Barish 88 $2\pi^+ \pi^0 \pi^-$ (π^0 's) $\bar{\nu}_\tau$ Behrend 89H Gan 88 $2\pi^+ \pi^0 \pi^- \bar{\nu}_\tau$ Matteuzzi 85 Charged (neutrals) Abachi 89B Behrend 89D Braunschweig 89F Hayes 89 Marshall 89 Adachi 88D Barish 88 Braunschweig 88D Gan 88 Ajachi 87 Albrecht 87L Naroska 87 Lowe 86B Bartel 85L 3charged neutral (neutrals) Ford 87 Aihara 86I Akerof 85B 3charged-hadron neutral (neutrals) Fernandez 85D $3\pi^+ 2\pi^-$ (π^0 's) $\bar{\nu}_\tau$ Behrend 89H $3\pi^+ 2\pi^- \bar{\nu}_\tau$ Barish 88 Abachi 87 Bylsma 87 Abachi 86 Beltrami 85 Burchat 85 $3\pi^+ \pi^0 2\pi^- \bar{\nu}_\tau$ Barish 88 Abachi 87 Bylsma 87 Abachi 86 Beltrami 85 Burchat 85 $4\pi^+ 3\pi^- \bar{\nu}_\tau$ (γ 's) Bylsma 87 $4\pi^+ 3\pi^- \bar{\nu}_\tau$ Bylsma 87 5charged (neutrals) Behrend 89D Marshall 89 Barish 88 Gan 88 Naroska 87 Bartel 85L Beltrami 85 5charged-hadron neutral (neutrals) Fernandez 85D $5\pi \bar{\nu}_\tau$ Gan 88 7charged (neutrals) Bylsma 87 $a_1(1260)^+$ neutral (neutrals) Ford 87 $a_1(1260)^+ \bar{\nu}_\tau$ Ford 87 Skwarnicki 87B Ruckstuhl 86 charged (neutrals) Marshall 89 charged neutral (neutrals) Abachi 89B Behrend 89D Braunschweig 89F Hayes 89 Adachi 88D Albrecht 88O Bacala 88 Bacala 88B Barish 88	τ^+	Braunschweig 88D Gan 88 Abachi 87E Adachi 87 Albrecht 87L Naroska 87 Aihara 86I Lowe 86B Akerof 85B Bartel 85L Beltrami 85 charged neutral Lowe 86C charged-hadron neutral (neutrals) Aihara 86I Fernandez 85D $e^+ \gamma$ Gan 88 Keh 88B Lowe 86B e^+ goldstone Baltrusaitis 85J $e^+ \bar{\nu}_\tau \nu_e$ Abachi 89 Behrend 89H Hayes 89 Janssen 89 Kass 89 Kleinwort 89 Marshall 89 Albrecht 88C Albrecht 88P Amidei 88 Barish 88 Gan 88 Tschirhart 88 Albrecht 87C Albrecht 87I Barlow 87 Coffman 87 Csorna 87 Ford 87B Naroska 87 Stockhausen 87B Aihara 86I Bartel 86F Burchat 86B Lowe 86B Lowe 86C Ash 85B Berger 85F $e^+ X$ Marshall 89 Klem 86 Behrends 85B $e^- 2e^+$ Gan 88 $\eta 2\pi^+ \pi^- \bar{\nu}_\tau$ Gan 88 Burchat 86B ηe^+ Keh 88B $\eta \pi^+$ (neutrals) Abachi 87F $\eta \pi^+$ (π^0 's) $\bar{\nu}_\tau$ Baringer 87 $\eta \pi^+ 2\pi^0 \bar{\nu}_\tau$ Gan 88 Skwarnicki 87B Burchat 86B Lowe 86C $\eta \pi^+ \bar{\nu}_\tau$ Barish 88 Gan 88 Coffman 87 Derrick 87B Gan 87B Skwarnicki 87B Stockhausen 87B Lowe 86C $\eta \pi^+ \pi^0 \bar{\nu}_\tau$ Gan 88	τ^+	Baringer 87 Skwarnicki 87B Aihara 86G Burchat 86B Lowe 86C γX Aihara 86G $K^*(892)^+$ neutral (neutrals) Aihara 86I $K^*(892)^+ \bar{\nu}_\tau$ Abachi 89B Hayes 89 Albrecht 88O Gan 88 Tschirhart 88 $\bar{K}^*(892)^0 e^+$ Gan 88 $\bar{K}^*(892)^0 \mu^+$ Gan 88 $K^+ K^- \pi^+ \bar{\nu}_\tau$ Barish 88 Ruckstuhl 86 Mills 85 $K^+ \bar{K}^0 \bar{\nu}_\tau$ Barish 88 Gan 88 K^+ neutral (neutrals) Aihara 86I $K^+ \bar{\nu}_\tau$ (γ 's) Albrecht 88P $K^+ \bar{\nu}_\tau + \rho^+ \bar{\nu}_\tau + \pi^+ \bar{\nu}_\tau + \mu^+ \bar{\nu}_\tau \nu_\mu + e^+ \bar{\nu}_\tau \nu_e$ Albrecht 87T $K^+ \bar{\nu}_\tau$ Hayes 89 Albrecht 88C Barish 88 Gan 88 Albrecht 87C Albrecht 87I Csorna 87 Burchat 86B Lowe 86C $K^+ \pi$ (π^0 's) $\bar{\nu}_\tau$ Barish 88 $K^+ \pi^+ \pi^- \bar{\nu}_\tau$ Barish 88 Ruckstuhl 86 Barish 88 $K^+ \pi^- e^+$ Gan 88 $K^+ \pi^- \mu^+$ Gan 88 $K^+ \pi^0$ neutral (neutrals) Aihara 86I $kaon \pi \bar{\nu}_\tau$ Burchat 86B $\bar{K}^0 e^+$ Gan 88 $\bar{K}^0 \mu^+$ Gan 88 ℓ^+ 2charged (neutrals) Barlow 87 $\mu^+ e^- e^+$ Gan 88 μ^+ goldstone Baltrusaitis 85J $\mu^+ \bar{\nu}_\tau \nu_\mu + e^+ \bar{\nu}_\tau \nu_e$ Ash 85B $\mu^+ \bar{\nu}_\tau \nu_\mu \gamma$ Wn 89 $\mu^+ \bar{\nu}_\tau \nu_\mu$ Hayes 89 Marshall 89 Albrecht 88C Albrecht 88P Barish 88 Gan 88 Albrecht 87C Albrecht 87I	τ^+	Barlow 87 Coffman 87 Csorna 87 Ford 87B Naroska 87 Stockhausen 87B Aihara 86I Bartel 86F Burchat 86B Lowe 86B Lowe 86C Berger 85F $\mu^+ X$ Marshall 89 Adeva 86B Behrends 85B $\mu^- 2\mu^+$ Gan 88 $\mu^- \mu^+ e^+$ Gan 88 $\bar{\nu}_\tau$ (γ 's) 5charged-hadron Behrend 89H $\bar{\nu}_\tau 2\gamma$ hadron ⁺ Behrend 89H $\bar{\nu}_\tau$ 3charged (neutrals) Ash 85B $\bar{\nu}_\tau$ 3charged-hadron Behrend 89H $\bar{\nu}_\tau$ 3charged Ruckstuhl 86 $\bar{\nu}_\tau 3\gamma$ (γ 's) hadron ⁺ Behrend 89H $\bar{\nu}_\tau \gamma$ (γ 's) 3charged-hadron Behrend 89H $\bar{\nu}_\tau$ hadron (hadrons) Gladney 90 Talebzadeh 87 $\bar{\nu}_\tau$ hadron ⁺ Behrend 89H $\omega \pi^+ \bar{\nu}_\tau$ Barish 88 Gan 88 Baringer 87 $\pi^+ 2\pi^0$ (π^0 's) $\bar{\nu}_\tau$ Aihara 86G Burchat 86B $\pi^+ 2\pi^0$ neutral (neutrals) Ford 87 $\pi^+ 2\pi^0 \bar{\nu}_\tau$ Behrend 89H Hayes 89 Barish 88 Gan 88 Ford 87 Skwarnicki 87B Lowe 86C $\pi^+ 3\pi^0$ (π^0 's) $\bar{\nu}_\tau$ Behrend 89H $\pi^+ 3\pi^0 \bar{\nu}_\tau$ Barish 88 Gan 88 Lowe 86C π^+ neutral (neutrals) Aihara 86I $\pi^+ \bar{\nu}_\tau$ (γ 's) Albrecht 88P $\pi^+ \bar{\nu}_\tau 2\gamma$ Lowe 86C $\pi^+ \bar{\nu}_\tau 4\gamma$ Lowe 86C $\pi^+ \bar{\nu}_\tau 6\gamma$ Lowe 86C $\pi^+ \bar{\nu}_\tau$ Behrend 89H Hayes 89 Albrecht 88C Barish 88 Gan 88 Albrecht 87C Albrecht 87I Barlow 87 Csorna 87
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τ^+

τ^-

τ^+	<p>Ford 87B Ford 87C Naroska 87 Bartel 86F Burchat 86B Lowe 86C</p> <p>$\pi^+ \pi^- e^+$ Gan 88</p> <p>$\pi^+ \pi^- \mu^+$ Gan 88</p> <p>$\pi^+ \pi^0$ (neutrals) Barish 88</p> <p>$\pi^+ \pi^0 \bar{\nu}_\tau$ Skwarnicki 87B Burchat 86B Lowe 86C</p> <p>π^0 (π^0's) $\bar{\nu}_\tau$ 3charged Ruckstuhl 86</p> <p>π^0 (π^0's) $\bar{\nu}_\tau$ hadron⁺ Berger 85F</p> <p>π^0 5π $\bar{\nu}_\tau$ Gan 88</p> <p>$\pi^0 e^+$ Gan 88 Keh 88B Lowe 86B</p> <p>$\pi^0 \bar{\nu}_\tau$ 3charged Ruckstuhl 86</p> <p>$\rho^+ \eta \bar{\nu}_\tau$ Lowe 86C</p> <p>$\rho^+ \bar{\nu}_\tau$ Abachi 89B Behrend 89H Hayes 89 Albrecht 88O Barish 88 Gan 88 Tschirhart 88 Adler 87B Albrecht 87C Albrecht 87I Csorna 87 Ford 87B Skwarnicki 87B Stockhausen 87B Lowe 86C</p> <p>$\rho^0 e^+$ Gan 88</p> <p>$\rho^0 \mu^+$ Gan 88</p>
τ^\pm	<p>Akrawy 90I Wu 87 Savoynavarro 85 Vuillemin 85</p> <p>$e^\pm 2\nu$ Albrecht 85C</p> <p>$K^\pm \nu$ Albrecht 85C</p> <p>$\mu^\pm 2\nu$ Albrecht 85C</p>
τ^-	<p>Aarnio 90B Abreu 90C Abreu 90F Adachi 90C Adeva 90B Akrawy 90 Akrawy 90D Akrawy 90E Akrawy 90G Akrawy 90J Akrawy 90K Akrawy 90L Decamp 90 Decamp 90G Kichlen 90 Nash 90 Abe 89P Abrams 89 Abrams 89B Abrams 89C</p>

τ^-	<p>Abrams 89F Adachi 89 Adachi 89B Adachi 89D Akrawy 89E Albajar 89B Burchat 89 Decamp 89B Decamp 89C Decamp 89D Decamp 89G Decamp 89H Eno 89B Felcini 89 Feldman 89 Feldman 89B Hearty 89 Hegner 89 Kim 89E Krauss 89 Maki 89 Metcalf 89 Nozaki 89 Ogawa 89 Sakai 89 Shaw 89 Stubenrauch 89 Weinstein 89 Adeva 88 Behrend 88C Kamae 88 Kim 88B Ko 88 Maki 88 Maki 88B Masuda 88 Meneil 88 Olsen 88 Ouldsada 88B Rosenfeld 88 Sakuda 88 Salvini 88 Shirai 88 Sumiyoshi 88 Takahashi 88 Tao 88 Tauchi 88 Unno 88 Yamauchi 88 Band 87 Bebek 87 Behrend 87 Behrend 87C Cenci 87 Miyamoto 87 Sakai 87 Wu 87 Albrecht 86E Bartel 86 Bartel 86D Behrend 86 Brucker 86 Burchat 86 Heltsley 86 Perl 86 Saxon 86 Ushida 86C Albrecht 85C Bartel 85K Fernandez 85C Forden 85B Gan 85 Goldhaber 85C Kiesling 85 Koltick 85B Marshall 85 Naroska 85 Vuillemin 85 Althoff 84R</p> <p>(ν's) charged Keh 88B</p> <p>(π^0's) ν_τ 3charged Ruckstuhl 86</p>
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τ^-	<p>(π^0's) ν_τ hadron⁺ 2hadron⁻ Berger 85F</p> <p>$0\pi^0 \nu_\tau$ hadron⁻ Berger 85F</p> <p>$2e^- e^+$ Bowcock 90 Gan 88 Albrecht 87C</p> <p>$2\eta \pi^-$ (neutrals) Abachi 87F</p> <p>$2\eta \pi^- \nu_\tau$ Gan 88 Gan 88B Skwarnicki 87B Burchat 86B Lowe 86C</p> <p>$2\eta \pi^0 \pi^- \nu_\tau$ Lowe 86C</p> <p>2hadron (hadrons) Dowell 88 Albajar 86</p> <p>$2\mu^- e^+$ Bowcock 90 Albrecht 87C</p> <p>$2\mu^- \mu^+$ Bowcock 90 Gan 88 Albrecht 87C</p> <p>$2\pi^+ 3\pi^-$ (π^0's) ν_τ Behrend 89H</p> <p>$2\pi^+ 3\pi^- \nu_\tau$ Albrecht 88C Barish 88 Abachi 87 Bylsma 87 Abachi 86 Beltrami 85 Burchat 85</p> <p>$2\pi^+ \pi^0 3\pi^- \nu_\tau$ Barish 88 Abachi 87 Bylsma 87 Abachi 86 Beltrami 85 Burchat 85</p> <p>$2\pi^- e^+$ Bowcock 90 Albrecht 87C</p> <p>$2\pi^- \mu^+$ Bowcock 90 Albrecht 87C</p> <p>$2\pi^0 \pi^-$ (π^0's) ν_τ Aihara 86G Burchat 86B</p> <p>$2\pi^0 \pi^-$ neutral (neutrals) Ford 87</p> <p>$2\pi^0 \pi^- \nu_\tau$ Behrend 89H Hayes 88 Hayes 89B Barish 88 Gan 88 Gan 88B Ford 87 Gan 87 Skwarnicki 87B Lowe 86C</p> <p>3charged (neutrals) Abachi 89L Behrend 89D Braunschweig 89F Hayes 89 Kleinwort 89 Marshall 89 Adachi 88D Barish 88 Braunschweig 88D Gan 88 Abachi 87E Adachi 87 Albrecht 87L Naroska 87 Lowe 86B</p>
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τ^-	<p>Schmidke 86 Bartel 85L</p> <p>3charged neutral (neutrals) Ford 87 Aihara 86I Akerlof 85B</p> <p>3charged-hadron neutral (neutrals) Fernandez 85D</p> <p>$3\pi^+ 4\pi^- \nu_\tau$ (γ's) Bylsma 87</p> <p>$3\pi^+ 4\pi^- \nu_\tau$ Bylsma 87</p> <p>$3\pi^0 \pi^-$ (π^0's) ν_τ Behrend 89H</p> <p>$3\pi^0 \pi^- \nu_\tau$ Hayes 89B Barish 88 Gan 88 Gan 88B Gan 87 Lowe 86C</p> <p>5charged (neutrals) Behrend 89D Marshall 89 Barish 88 Gan 88 Naroska 87 Bartel 85L Beltrami 85</p> <p>5charged-hadron neutral (neutrals) Fernandez 85D</p> <p>$5\pi \nu_\tau$ Gan 88</p> <p>7charged (neutrals) Bylsma 87</p> <p>$a_1(1260)^-$ neutral (neutrals) Ford 87</p> <p>$a_1(1260)^-$ ν_τ Ford 87 Skwarnicki 87B Ruckstuhl 86</p> <p>charged (neutrals) Behrend 89D Marshall 89 Barish 88</p> <p>charged neutral (neutrals) Abachi 89B Braunschweig 89F Hayes 89 Adachi 88D Albrecht 88O Bacala 88 Bacala 88B Braunschweig 88D Gan 88 Adachi 87 Albrecht 87L Naroska 87 Aihara 86I Lowe 86B Akerlof 85B Bartel 85L Beltrami 85</p> <p>charged neutral Lowe 86C</p> <p>charged-hadron neutral (neutrals) Aihara 86I Fernandez 85D</p> <p>$e^- \gamma$ Janssen 90 Gan 88 Gan 88B Keh 88B Lowe 86B</p> <p>e^- goldstone Baltrusaitis 85J</p> <p>$e^- \nu_\tau \bar{\nu}_e$ Janssen 90</p>
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Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

Tc

Tc		48Ti		i		3H
	Kozma 90 Kozma 88		Barabash 89B You 89 Caldwell 88 Barabash 87B	b higgs ⁺	Abrams 89F Felcini 89	Avdejchikov 88 Boyarinov 88 Pillai 88 Safronov 88B Vokal 88 Ablev v 87 Ablev 87C Ablev 87D Ablev 87E Ayasevich 87B Balestra 87 Beck 87 Ero 87 Gornov 87 Gornov 87B Peng 87 Schurman 87 Abramov 86 Andronenko 86 Anikina 86C Balestra 86 Doerr 86 Ergakov 86 Glagolev 86 Gornov 86B Marx 86 Mayer 86 Zelinski 86 Anikina 85C Arefiev 85 Backenstoss 85 Barkov 85C Bell 85 Ellegaard 85 Franz 85 Hamagaki 85 Juster 85 Kristiansson 85 Machner 85 Segel 85 Silverman 85 Abashidze 84 Balestra 84 Donoghue 84D Thron 84
93Tc	Butsev 85	198Ti	Butsev 85	b X	Abrams 89F	
93Tc*	Butsev 85	198Ti*	Butsev 85	$e^+ \nu_e b$	Akesson 90C	
94Tc	Butsev 85			$e^+ X$	Geer 89 Tonelli 89	
94Tc*	Butsev 85	200Ti	Butsev 85	$e^\pm X$	Myung 89	
95Tc	Butsev 85	top		$e^- \bar{\nu}_e b$	Barbarogalti 90 Barbarogalti 89	
98Tc	Rapaport 85		Decamp 89E Jenni 89 Weinstein 89 Dowell 88 Kichimi 88 Adeva 85	$\mu^+ \nu_\mu b$	Albajar 90E	
Te		2hadron (hadrons)	Adachi 88C Ko 88 Son 88 Sumiyoshi 88 Yamauchi 88	$\mu^+ X$	Geer 89 Tonelli 89 Bartel 85M	
117Te	Butsev 85		Shirai 88	$\mu^- \bar{\nu}_\mu b$	Barbarogalti 90	
124Te	Barabash 90 Barabash 89 Barabash 89B Rosen 88 Norman 87	$e^+ \nu_e$ 2hadron (hadrons)	Shirai 88	$\mu^- X$	Bartel 85M	
125Te	Ejiri 89	$e^+ \nu_e$ hadron (hadrons)	Sugahara 88	$W^- b$	Barbarogalti 89	
125Te*		$e^\pm X$	Myung 89	i		
126Te		$\mu^+ \nu_\mu$ 2hadron (hadrons)	Shirai 88	Abreu 90B Albajar 90E Abrams 89F Akrawy 89B Barbarogalti 89 Decamp 89E Plothowbesch 88 Abe 87C Amako 87 Yoshida 87B	2hadron (hadrons) Ogawa 89	
126Te*		$\mu^+ \nu_\mu$ hadron (hadrons)	Sugahara 88	$\mu^\pm X$	Machner 85 Yoshida 87B	
128Xe 2e- 2νe	Caldwell 88	$\mu^\pm X$	Maki 88B	μ^- (jets) jet	Albajar 88G	
128Xe 2e- majoron	Caldwell 88	μ^- (jets) jet	Albajar 88G			
130Te		top		tribaryon		
130Xe 2e- 2νe	Barabash 89B Caldwell 88 Rosen 88		Decamp 89E Jenni 89 Dowell 88 Adeva 85	$2n \Delta(1232 P_{33})^{++}$	Abdullin 89E Abdullin 88C	tritium
130Xe 2e- majoron	Barabash 89B Caldwell 88	2hadron (hadrons)	Adachi 88C Ko 88 Son 88 Sumiyoshi 88 Yamauchi 88	$3p$	Abdinov 86B	235U
130Xe 2e-	Barabash 89B Rosen 88	$e^- \bar{\nu}_e$ 2hadron (hadrons)	Shirai 88	deuteron n	Abdullin 88D	Borzakov 90
technipion⁺		$e^- \bar{\nu}_e$ hadron (hadrons)	Sugahara 88	deuteron p	Abdullin 88D	unspec
$e^- \bar{\nu}_e$	Akrawy 90D	μ^+ (jets) jet	Albajar 88G	$p 2n \pi^+$	Abdullin 89E Abdullin 88C	2γ
$\tau^+ \nu_\tau$	Akrawy 90D	$\mu^\pm X$	Myung 89	$p 2n$	Abdullin 89E Abdullin 88C	$e^- e^+$
technipion⁻		$\mu^- \bar{\nu}_\mu$ 2hadron (hadrons)	Shirai 88			Danzmann 89 Dolinsky 89 Dolinsky 89B Connell 88
$e^- \bar{\nu}_e$	Akrawy 90D	$\mu^- \bar{\nu}_\mu$ hadron (hadrons)	Sugahara 88	3H		Dolinsky 89 Dolinsky 89B Hawkins 89B Blinov 88B Lorenz 88
$\tau^- \bar{\nu}_\tau$	Akrawy 90D	toponium				Hawkins 89B Lowe 86B
Ti			Adeva 85 Bartel 85M			W^\pm jet
	Ahmad 88 Ahmad 87 Burnham 87 Numao 86 Numao 86B Bryman 85 Zajmidoroga 85	t				Albajar 89B
40Ti	Mordechai 85		Abreu 90B Akrawy 89B Decamp 89E Sinerwa 89 Plothowbesch 88 Abe 87C Amako 87 Yoshida 87B		Amelin 90 Ransome 90 Ablev 89 Bayukov 89C Cebra 89 Ellegaard 89 Franz 89 Peng 89 Spahn 89 Vlasov 89B	Y(10860)
40Ti*	Mordechai 85	2hadron (hadrons)	Ogawa 89			Voloshin 87
46Ti	Hardy 89					

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

Y(10860)	Y(1S)	Y(1S)	Y(1S)
Besson 85 2hadron (hadrons) Lovelock 85	$f_2(1720) \gamma$ Albrecht 89J Fulton 89B Schmitt 88 Bean 86	Albrecht 88I Albrecht 86G Behrends 85	$\tau^- \tau^+$ Albrecht 85C
Y(11020)	$f_2'(1525) \gamma$ Fulton 89B Bean 86	$\Lambda(1520 D_{03}) X$ Albrecht 88Q	Y(1S) $2\pi^0$ Leffler 86
Voloshin 87 Besson 85	$f_4(2220) \gamma$ Albrecht 89J Baru 89 Baru 87 Baru 86B Bean 86	$\bar{\Lambda} K_S X$ Behrends 85	X(2200) γ Baru 89 $\Xi(1530 P_{13})^0 X$ Albrecht 89B Albrecht 88I Albrecht 86G
Y(1S)	γ 2gluon Albrecht 87H	$\bar{\Lambda} X$ Behrends 85	$\Xi^- X$ Albrecht 89B Albrecht 88I Albrecht 86G Behrends 85
Albrecht 88D Albrow 88 Augustin 88C Thorndike 88 Bowcock 87 Gray 87 Lurz 87 Schindler 87 Voloshin 87 Baru 85 Falciano 85 Gelpman 85 Mestayer 85 Nernst 85 Walk 85	γ axion Fairfield 88 Davier 87 Albrecht 86C Bowcock 86 Mageras 86	meson ⁰ γ Schmitt 88 Toki 87 Bowcock 86	$\Xi^+ X$ Behrends 85
2 γ (γ 's) Lowe 86B	γ η iumium Tuts 87	$\mu^+ e^- \nu_\tau \bar{\nu}_\tau \nu_\mu \bar{\nu}_\mu \gamma$ Lowe 86B	Y(2S)
2hadron (hadrons) Chen 89 Kaarsberg 89 Jakubowski 88	γ higgs Albrecht 89J Franzini 87 Albrecht 85C Albrecht 85L Rosner 85E	$\mu^- e^+ \nu_\tau \bar{\nu}_\tau \nu_\mu \bar{\nu}_\mu \gamma$ Lowe 86B	Albrecht 88D Albrow 88 Leffler 86 Falciano 85 2hadron (hadrons) Kaarsberg 89 Jakubowski 88
2jet Albrecht 86D	γ neutral (neutrals) Franzini 87	$\mu^- \mu^+$ Fulton 89	$2\pi^0 e^- e^+$ Gelpman 85
2K _S γ Toki 87	γ neutral Albrecht 89J Franzini 87 Tuts 87 Mageras 86	$\mu^- \mu^+$ Liss 90 Mishra 90 Chen 89 Kaarsberg 89 Albrecht 87Q Skwarnicki 87 Summers 87 Albajar 86C Brown 86 Grossmanhand 86 Albrecht 85C Albrecht 85I Childers 85	$2\pi^0 \gamma$ unspec Lowe 86B
2p X Behrends 85	γ unspec Lowe 86B	mult[π] X Avery 85	$2\pi^0 \mu^- \mu^+$ Gelpman 85
2p̄ X Behrends 85	γ X Schutte 89 Schmitt 88 Tuts 87 Besson 86 Csorna 86 Lowe 86 Lowe 86B Albrecht 85L Bloom 85C Koenigsmann 85 Lowe 85 Rosner 85E	$\Omega^- X$ Albrecht 88I	$\chi_0(\text{unspec}) \gamma$ Skwarnicki 87 Voloshin 87 Augustin 85E Bloom 85C
$2\pi^0$ (π^0 's) γ (γ 's) Lowe 86B	J/ $\psi(1S)$ X Fulton 89 Maschmann 89	p Λ X Albrecht 88I	$\chi_{b0}(1P) \gamma$ Schindler 87 Albrecht 85H
$2\pi^0 \gamma$ neutral Leffler 86	K*(892) ⁺ X Behrends 85	p $\bar{\Lambda}$ X Behrends 85	$\chi_{b1}(1P) \gamma$ Schindler 87 Albrecht 86 Albrecht 85H Nernst 85 Skwarnicki 85B Walk 85
$2\pi^0$ neutral Leffler 86	K*(892) ⁻ X Behrends 85	p \bar{p} γ Albrecht 89J	$\chi_{b2}(1P) \gamma$ Schindler 87 Albrecht 85H Skwarnicki 85B Walk 85
3 γ (γ 's) Schutte 89 Schmitt 88	K*(892) ⁰ X Behrends 85	p \bar{p} X Behrends 85	e ⁻ e ⁺ 2 γ Bloom 85C Skwarnicki 85B
3 γ Fairfield 88	$\bar{K}^*(892)^0 X$ Behrends 85	p X Behrends 85	e ⁻ e ⁺ 4 γ Gelpman 85
3gluon Albrecht 87H	K ⁺ K ⁻ γ Albrecht 89J Toki 87	p̄ Λ X Behrends 85	η X Albrecht 89G
$\Delta(1232 P_{33})^{++} X$ Albrecht 89I	K ⁺ K ⁻ X Albrecht 88K Behrends 85	p̄ $\bar{\Lambda}$ X Behrends 85	f ₀ (1525) γ Albrecht 89J
e ⁻ e ⁺ γ Fairfield 88 Bowcock 86 Mageras 86	K ⁺ X Behrends 85	p̄ X Behrends 85	f ₂ (1270) γ Albrecht 89J
e ⁻ e ⁺ Albrecht 87Q Skwarnicki 87 Albrecht 85C	K ⁻ X Behrends 85	ϕ X Albrecht 88K Behrends 85	f ₂ (1720) γ Albrecht 89J
$\eta \gamma$ Schmitt 88 Lowe 86B	K ⁰ X Behrends 85	photino gravitino Albrecht 86C	f ₄ (2220) γ Albrecht 89J
ηX Albrecht 89G	$\bar{K}^0 X$ Behrends 85	$\pi^+ \pi^- \gamma$ Albrecht 89J	γ hadron (hadrons) Nernst 85
$\eta_b \gamma$ Franzini 87 Rosner 85E	$\Lambda K_S X$ Behrends 85	$\pi^+ \pi^- X$ Behrends 85	γ higgs Albrecht 89J Albrecht 85L
$\eta' \gamma$ Schmitt 88 Lowe 86B	$\Lambda \bar{\Lambda} X$ Behrends 85	$\pi^+ X$ Behrends 85	γ neutral Albrecht 89J
f ₀ (1525) γ Albrecht 89J	ΛX Albrecht 89B	$\pi^- X$ Behrends 85	γ X Schindler 87 Albrecht 85L Augustin 85E Bloom 85C Koenigsmann 85
f ₂ (1270) γ Albrecht 89J		$\pi^0 X$ Albrecht 89G Behrends 85	J/ $\psi(1S)$ X Maschmann 89
		$\rho^0 X$ Behrends 85	
		$\Sigma(1385 P_{13})^+ X$ Albrecht 88I Albrecht 86G	
		$\Sigma(1385 P_{13})^- X$ Albrecht 88I Albrecht 86G	
		$\Sigma^0 X$ Albrecht 88I	
		$\tau^- \tau^+ \gamma$ Lowe 86B Albrecht 85C	

Y(2S)

Y(4S)

Y(2S)	Y(2S)	Y(4S)	Y(4S)
K^+ hadron (hadrons) Albrecht 89H	Schindler 87 Voloshin 87	Albrecht 87B Lovelock 85	Albrecht 87 Chen 85
$K^+ K^- \gamma$ Albrecht 89J	Albrecht 86C Bowcock 86 Albrecht 85C Gelpman 85	$2\mu^+ X$ Albrecht 87P Bean 87B	$B^0 e^+ X$ Albrecht 87O Albrecht 87P
$K^+ K^- X$ Albrecht 88K	$Y(1S) \pi^+ \pi^0 \pi^-$ Albrecht 87Q	$2\mu^- X$ Albrecht 87P Bean 87B	$B^0 \mu^+ X$ Albrecht 87O Albrecht 87P
K^0 hadron (hadrons) Albrecht 89H	$Y(1S) \rho^0$ Lurz 87	$B \bar{B}$ Behrends 87	$\bar{B}^0 e^- X$ Albrecht 87O Albrecht 87P
K^0 hadron (hadrons) Albrecht 89H	$\Xi(1530 P_{13})^0 X$ Albrecht 88I	$B(\text{unspec}) \bar{B}(\text{unspec})$ Albrecht 89E Harder 89 Maschmann 89 Wachs 89	$\bar{B}^0 \mu^- X$ Albrecht 87O
\bar{K}^0 hadron (hadrons) Albrecht 89H	$\Xi^- X$ Albrecht 89B Albrecht 88I	Albrecht 88G Alam 87B Albrecht 87D Albrecht 87G Bartoletto 87 Bean 87 Alam 86 Bartoletto 86 Haas 86 Albrecht 85K	charged X Alexander 90 charm X + charm X Gittelman 87
ΛX Albrecht 89B Albrecht 88I	$Y(3S)$ Albrow 88 Falciano 85	$B^+ B^-$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^- X$ Gittelman 87
$\Lambda(1520 D_{0s}) X$ Albrecht 88Q	2hadron (hadrons) Chen 89 Kaarsberg 89	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$J/\psi(1S) X$ Maschmann 89 Haas 85
$\mu^- \mu^+ 2\gamma + e^- e^+ 2\gamma$ Walk 85	$X_0(\text{unspec}) \gamma$ Voloshin 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ K^- \pi^- X$ Albrecht 87D
$\mu^- \mu^+ 2\gamma$ Skwarnicki 85B	$X_{01}(2P) \gamma$ Schindler 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ K^- X$ Albrecht 87D
$\mu^- \mu^+ 4\gamma$ Gelpman 85	$X_{02}(2P) \gamma$ Gray 87 Schindler 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Albrecht 87D
$\mu^- \mu^+$ Kaarsberg 89 Summers 87 Albajar 86C Brown 86 Grossmanhand 86 Albrecht 85I Childers 85	$e^- e^+ 2\gamma$ Gray 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Gittelman 87
$\Omega^- X$ Albrecht 88I	γX Gray 87 Schindler 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Gittelman 87
p hadron (hadrons) Albrecht 89H	$\mu^- \mu^+$ Chen 89 Kaarsberg 89 Kaarsberg 87 Summers 87 Albajar 86C Brown 86 Grossmanhand 86 Childers 85	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$\Lambda X + \bar{\Lambda} X$ Gittelman 87
$p \bar{p} \gamma$ Albrecht 89J	$Y(1S) 2\gamma$ Gray 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	ΛX Albrecht 89B Albrecht 88I
\bar{p} hadron (hadrons) Albrecht 89H	$Y(1S) \pi^+ \pi^-$ Augustin 88C Bowcock 87 Gray 87 Schindler 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^+ X$ Gittelman 87
ϕX Albrecht 88K	$Y(2S) \pi^+ \pi^-$ Bowcock 87 Gray 87 Schindler 87	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^+ X$ Gittelman 87
π^+ hadron (hadrons) Albrecht 89H	$Y(4S)$ Albrecht 89X Kreinick 89 Miller 89 Schubert 89 Albrecht 88D Bebek 87B Voloshin 87 Mageras 86	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^+ X$ Albrecht 87P Bean 87B Alam 86
$\pi^+ \pi^- e^- e^+ \gamma$ Bowcock 86	$2B^0$ Franzini 89 Itep 89	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Albrecht 87D
$\pi^+ \pi^- e^- e^+ \gamma$ Gelpman 85	$2\bar{B}^0$ Franzini 89 Itep 89	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Gittelman 87
$\pi^+ \pi^- \gamma$ axion Bowcock 86	$2e^+ X$ Albrecht 87P Bean 87B	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Gittelman 87
$\pi^+ \pi^- \gamma$ Albrecht 89J	$2e^- X$ Albrecht 87P Bean 87B	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$\Lambda X + \bar{\Lambda} X$ Gittelman 87
$\pi^+ \pi^- \text{meson}^0 \gamma$ Bowcock 86	2hadron (hadrons) Albrecht 89E	$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	ΛX Albrecht 89B Albrecht 88I
$\pi^+ \pi^- \mu^- \mu^+$ Gelpman 85		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^+ X$ Albrecht 87P Bean 87B Alam 86
π^- hadron (hadrons) Albrecht 89H		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^- X$ Gittelman 87
$\pi^0 X$ Albrecht 89G		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Albrecht 87D
$\Sigma(1385 P_{13})^+ X$ Albrecht 88I		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Gittelman 87
$\Sigma(1385 P_{13})^- X$ Albrecht 88I		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$K^+ X$ Gittelman 87
$\Sigma^0 X$ Albrecht 88I		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$\Lambda X + \bar{\Lambda} X$ Gittelman 87
$Y(1S) 2\gamma$ Bloom 85C Walk 85		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	ΛX Albrecht 89B Albrecht 88I
$Y(1S) 2\pi^0$ Albrecht 87Q Schindler 87 Lowe 86B Gelpman 85		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^+ X$ Albrecht 87P Bean 87B Alam 86
$Y(1S) \eta$ Albrecht 87Q Lurz 87 Schindler 87		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$e^+ X$ Albrecht 87P Bean 87B Alam 86
$Y(1S) \pi^+ \pi^-$ Albrecht 87Q Bowcock 87 Gray 87		$B^0 \bar{B}^0$ Albrecht 90D Albrecht 90E Bartoletto 90 Weir 90 Alam 89 Albrecht 89L Albrecht 89Q Albrecht 89S Albrecht 89U Artuso 89 Avery 89B Bebek 89 Bartoletto 89 Bartoletto 89B Danilov 89 Halling 89 Albrecht 88E Albrecht 88M Albrecht 88T Danilov 88 Thorndike 88 Albrecht 87B Albrecht 87P Avery 87 Bean 87B Gittelman 87 Gray 87 Schindler 87	$\mu^- e^+ X$ Gittelman 87

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

$\Upsilon(4S)$	$4S^1V_a$	W^+	W^-
$\mu^- \mu^+$ 2hadron (hadrons) Fulton 89	$4S^1Ti e^+ \nu_e$ Hardy 89	$\tau^+ \nu_\tau$ Arnison 85D	Cenci 87 Repellin 87 Albajar 86 Arnison 85D Hanni 85 Levi 85
$\mu^- \mu^+$ 4(charged) (neutrals) Bean 87	$4S^1V_a$ Kozma 88B Kozma 86 Michel 85	Gladney 90 Albajar 89B Stubenrauch 89 Dowell 88 Tao 88 Cenci 87 Albajar 86	heavy-lepton X Albajar 86B
$\mu^- \mu^+$ X Albrecht 87P Bean 87B Alam 86 Haas 85	vee Batusov 89C Decamp 89C Drutsokoy 87 Mikocki 86 Balestra 85	$t \bar{b}$ Plothowbesch 88	$\mu^- \bar{\nu}_\mu$ Abe 89R Albajar 89B Smith 89 Stubenrauch 89 Dowell 88 Tao 88 Albajar 87 Cenci 87 Prokoshkin 87C Albajar 86 Arnison 86C Levi 85
$\mu^- X$ Gittelman 87	W⁺ Adachi 89E Mandelli 88 Salvini 88 Sphicas 88 Albajar 87E Ansari 87C Richard 87 Rubbia 86	W[±] Albajar 90C Alitti 90 Alitti 90B Alitti 90C Gladney 90 Watts 90 Abe 89Q Abe 89R Albajar 89B Albajar 89C Geer 89 Kamon 89 Meier 89 Smith 89 Albrow 88 Ansari 88 Dowell 88 Plothowbesch 88 Ruhlmann 88 Tao 88 Albajar 87 Prokoshkin 87C Albajar 86 Arnison 85B Savoynavarro 85 Vuillemin 85	ν heavy-lepton ⁻ Gan 88 $\bar{\nu}$ heavy-lepton ⁻ Albajar 89B
mult[charged] (neutrals) Gittelman 87	2jet Alitti 90D Jenni 89	Meier 89 Kamon 89 Ansari 87B Kim 88	$\bar{\nu}_e e^{*-}$ Gan 88 Ansari 87D Repellin 87
$\Omega^- X$ Albrecht 88I	$e^+ \nu_e$ Alitti 90B Alitti 90C Watts 90 Abe 89B Abe 89Q Abe 89R Albajar 89B Geer 89 Jenni 89 Kamon 89 Stubenrauch 89 Ansari 88 Dowell 88 Plothowbesch 88 Tao 88 Albajar 87 Ansari 87E Cenci 87 Repellin 87 Albajar 86 Arnison 85D Hanni 85 Levi 85	2f Kim 88	$\pi^- \gamma$ Albajar 90C
$p \bar{p} \pi^+ \pi^- X$ Albrecht 88T	heavy-lepton X Albajar 86B	2q Kim 88	$q \bar{q}$ Barbarogalti 89 Meier 89 Cenci 87
$p \bar{p} \pi^+ X$ Albrecht 88T	$\mu^+ \nu_\mu$ Abe 89R Albajar 89B Smith 89 Stubenrauch 89 Dowell 88 Tao 88 Albajar 87 Cenci 87 Prokoshkin 87C Albajar 86 Arnison 86C Rubbia 86	$e^\pm \nu$ Appel 86 Stubenrauch 86	$\bar{\nu} \bar{e}^-$ Albajar 89B
$p \bar{p} \pi^- X$ Albrecht 88T	2jet Alitti 90D Jenni 89	νe^{*+} Appel 86	$\bar{\nu}_e \bar{e}^-$ Stubenrauch 89 Arnison 85D
$p \pi^- X$ Alam 87B	heavy-lepton X Albajar 86B	$q \bar{q}$ Ansari 87B Repellin 87	$\tau^- \bar{\nu}_\tau$ Gladney 90 Albajar 89B Stubenrauch 89 Dowell 88 Tao 88 Cenci 87 Albajar 86
$p X + \bar{p} X$ Gittelman 87	$\pi^+ \gamma$ Albajar 90C	W^- Eno 89C Mandelli 88 Salvini 88 Sphicas 88 Albajar 87E Ansari 87C Richard 87 Rubbia 86	$\bar{t} b$ Plothowbesch 88
$p X$ Alam 87B	$q \bar{q}$ Meier 89 Cenci 87	2jet Alitti 90D Jciani 89	wino $\bar{\nu}$ photino charged-lepton Bartel 85F
$\bar{p} \pi^+ X$ Alam 87B	$\bar{\nu} \bar{e}^+$ Gan 88	Alitti 90B Alitti 90C Watts 90 Abe 89B Abe 89Q Abe 89R Albajar 89B Geer 89 Jenni 89 Kamon 89 Stubenrauch 89 Ansari 88 Dowell 88 Plothowbesch 88 Tao 88 Albajar 87 Ansari 87E	$q \bar{q}$ gluino Bartel 85F
$\bar{p} X$ Alam 87B	$\nu_e e^{*+}$ Gan 88 Ansari 87D Repellin 87	$e^- \bar{\nu}_e$ Alitti 90B Alitti 90C Watts 90 Abe 89B Abe 89Q Abe 89R Albajar 89B Geer 89 Jenni 89 Kamon 89 Stubenrauch 89 Ansari 88 Dowell 88 Plothowbesch 88 Tao 88 Albajar 87 Ansari 87E	$q \bar{q}$ photino Bartel 85F
$\psi(2S) X$ Alexander 90	$\pi^+ X$ Aubert 85E	2jet Alitti 90D Jciani 89	$\bar{\nu}$ charged-lepton Bartel 85F
$\psi(3770) X$ Alexander 90	$\pi^- X$ Aubert 85E	$e^+ \nu_e$ photino Decamp 89D	wino⁺ Adeva 89B Fernandez 87C Bartel 85F
$\Sigma(1385 P_{13})^+ X$ Albrecht 88I	$\bar{\nu} \bar{e}^+$ Albajar 89B	$e^+ \bar{\nu}_e$ Akesson 90B Adeva 87 Ansari 87D	$\mu^+ \nu_\mu$ photino Decamp 89D
$\Sigma(1385 P_{13})^- X$ Albrecht 88I	$\bar{\nu}_\tau \bar{e}^+$ Stubenrauch 89	$\mu^+ \bar{\nu}_\mu$ photino Decamp 89D	$\mu^+ \bar{\nu}_\mu$ Adeva 87
$\Sigma^0 X$ Albrecht 88I		$\tau^+ \nu_\tau$ photino Decamp 89D	wino⁻ Adeva 89B Steele 89
$\tau^- \tau^+$ Lowe 86B			
$\Upsilon(1S)$ hadron (hadrons) Thorndike 88			
$\Xi(1530 P_{13})^0 X$ Albrecht 88I			
$\Xi^- X$ Albrecht 89B Albrecht 88I			
Υ(unspec) Yoshida 89			
2hadron (hadrons) Voloshin 87			
γ higgs Wu 87			
$\mu^- \mu^+$ Tao 88 Voloshin 87			
$\nu \bar{\nu}$ Voloshin 87			
u Albrecht 90D Albajar 89B Artuso 89B Eno 89B Kreinick 89 Miller 89 Behrends 87			
$\pi^+ X$ Aubert 85E			
$\pi^- X$ Aubert 85E			
u Albajar 89B Eno 89B			
V_a Kozma 90 Kozma 88			

wino⁻

$\Xi_c(2460)^0$

wino⁻		X(3100)⁰	$\Xi(1530 P_{13})^0$	$\Xi_c(2460)$
$e^- \bar{\nu}_e$ photino Bartel 85F Decamp 89D		$\bar{p} \Lambda 2\pi^+ \pi^-$ Alev 86C Augustin 88C Bourquin 86	Λ Albrecht 881 Klein 88 Henrard 87 Klein 87 Albrecht 86G Aston 85	Klein 89C
$e^- \bar{\nu}_e$ Akesson 90B Adeva 87 Ansari 87D		$\bar{p} \Lambda \pi^+$ Augustin 88C		$\Xi_c(2460)^+$
$\mu^- \bar{\nu}_\mu$ photino Decamp 89D	Xe		$\Xi(1690)^-$	$\Lambda \bar{K}^*(892)^0$ Alam 89B π^+ Klein 89C Biagi 85
$\mu^- \bar{\nu}_\mu$ Adeva 87			ΛK^- Biagi 87	$\Lambda K^- 2\pi^+$ Klein 89C Cotescu 87 Cotescu 87B Cumalat 87B Luth 87 Biagi 85 Biagi 84
$\tau^- \bar{\nu}_\tau$ photino Decamp 89D	^{124}Xe		$\Xi(1820 D_{13})^-$	$\Omega^- K^+ \pi^+$ Klein 89C Biagi 85
W^{+/+}		^{124}Te $2e^+ 2\nu_e$ Barabash 89B	$\Xi(1530 P_{13})^0 \pi^-$ Aston 85	$p 2K^- 2\pi^+$ Klein 89C Biagi 85
2jet		^{124}Te $2e^+$ Barabash 90 Barabash 89 Barabash 89B	$\Xi^- \pi^+ \pi^-$ Biagi 87	$p \bar{K}^0 K^- \pi^+$ Klein 89C Biagi 85
$e^+ \nu_e$ Albajar 89B Ansari 87D	^{128}Xe		$\Xi(1820 D_{13})^0$	$\Sigma(1385 P_{13})^+ K^- \pi^+$ Klein 89C Biagi 85
W^{+/±}			$\Lambda \bar{K}^0$ Biagi 87B	$\Sigma^+ K^- \pi^+$ Barlag 89 Barlag 89C
			$\Sigma^0 \bar{K}^0$ Biagi 87B	$\Sigma^0 K^- 2\pi^+$ Luth 87
W⁻			$\Xi(1950)^0$	$\Sigma^0 K^- \pi^+ \pi^-$ Cotescu 87 Cotescu 87B Cumalat 87B
			$\Lambda \bar{K}^0$ Biagi 87B	$\Xi^- 2\pi^+$ Barlag 89 Barlag 89C Klein 89C
2jet			$\Sigma^0 \bar{K}^0$ Biagi 87B	
$e^- \bar{\nu}_e$ Albajar 89B Ansari 87D	^{130}Xe		$\Xi^*(\text{unspec})$	$\Xi_c(2460)^0$
Wt			$\Xi(1530 P_{13})^0 K^-$ Biagi 86B	$\Lambda K^- \pi^+ \pi^0$ Alam 89B Klein 89C Biagi 85
			$\Xi^- K^- \pi^+$ Biagi 86B	$\Omega^- K^+$ Klein 89C Biagi 85
X(1700)			Ξ^-	$\Omega^- \pi^+ X$ Klein 89C Klein 88
$K^+ K^-$ Falvard 88	^{136}Xe			$p 2K^- \pi^+$ Klein 89C Biagi 85
$K^0 \bar{K}^0$ Falvard 88	^{136}Ba $2e^- 2\nu_e$ Ajnutdinov 88 Barabash 87			$p \bar{K}^*(892)^0 K^-$ Barlag 90
X(1935)⁰				$p \bar{K}^0 K^-$ Klein 89C Biagi 85
$p \bar{p}$ Bruckner 87 Sapozhnikov 86	^{136}Ba $2e^- 2\nu_e$ Barabash 90 Artemiev 89 Barabash 89 Barabash 89B Rosen 88			$\Xi^- K^+ X$ Klein 89C Klein 88
X(2200)				$\Xi^- \pi^+ X$ Klein 89C Avery 88
2φ				
$K \bar{K}$ Baru 89 Baru 87	^{136}Ba $2e^-$ majoron Barabash 90 Artemiev 89 Barabash 89 Barabash 89B			
$K^+ K^-$ Toki 88B				
Baru 89 Baru 87 Sculli 87	^{136}Ba $2e^-$ Barabash 90 Artemiev 89 Barabash 89 Barabash 89B Bellotti 89 Ajnutdinov 88 Rosen 88 Barabash 87 Barabanov 86			
$\pi^+ \pi^-$ Sculli 87				
X(3100)				
$\bar{p} \Lambda 2\pi$ (π^0 's) Augustin 88C	Ξ			
X(3100)⁺				
Alev 86C				
$\bar{p} \Lambda 2\pi^+$ Augustin 88C Bourquin 86				
X(3100)⁻				
Alev 86C				
$\bar{p} \Lambda \pi^+ \pi^-$ Augustin 88C Bourquin 86				
X(3100)⁻⁻				
$\bar{p} \Lambda \pi^-$ Augustin 88C				

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

Ξ^0	Schneider 90 Pelzer 89 Fredriksson 87 Beretvas 86 Cardello 84	Z^0	2chargino Barklow 90	Z^0	Decamp 90G Gan 88	Z^0	heavy-lepton ⁰ heavy-lepton ⁰ Akray 90I Decamp 89E
$\Lambda \pi^0$	Bensinger 88	2γ	(hadrons) 90F	$e^+ X$	Decamp 90C	heavy-lepton ⁰ X	Weinstein 89
$\Sigma^0 \gamma$	Bensinger 88	2hadron (hadrons)	Aarnio 90 Adeva 90 Akray 90C Akray 90E Akray 90K Decamp 90F Kuhlen 90 Nash 90 Aarnio 89 Abrams 89B Abrams 89C Adeva 89 Akray 89 Akray 89B Akray 89C Burchat 89 Decamp 89 Decamp 89B Decamp 89G Feldman 89 Feldman 89B Hearty 89 Komamiya 89C Kral 89 Krauss 89 Weinstein 89	$e^\pm e^\pm$	Appel 86	higgs⁺ higgs⁺	Abreu 90 Akray 90D Decamp 90
$\Xi(1530 P_{13})^+$	Kopke 89	2higgs	Abreu 90C Akray 90N Komamiya 90 Decamp 89H Bartel 85E	$e^- e^{++}$	Akray 90I	jet X	Komamiya 89C Weinstein 89
$\Xi(1530 P_{13})^0$	Albrecht 88I	2higgsino	Bartel 85E	$e^- e^+ \gamma$	Akray 90G Decamp 90G Gan 88	$\ell^+ \ell^-$ higgs	Decamp 90H Decamp 89C
Ξ^+	Alam 89B Kopke 89 Marshall 89 Albrecht 88I Klein 88 Henrard 87 Klein 87 Aleev 86 Behrends 85 Mestayer 85 Ainer 84B	2jet	Alitti 90D Akray 89C Akray 89E Ansari 87B	$e^- e^+ \text{ higgs}$	Appel 86	$\ell^+ \ell^-$ vee	Decamp 89C
$\bar{\Lambda} \pi^+$	Avery 88 Kennett 87B Naroska 87 Mikocki 86 Abe 85B Cardello 84	2longlived	Soderstrom 90 Jung 89	$e^- e^+$	Abreu 90F Akray 90J Akray 90N Decamp 90E Decamp 90H Decamp 89C	$\bar{\ell}^0 \ell^0$	Abrams 89F
Ξ^0		2neutralino	Akray 90M Barklow 90 Decamp 90D	$e^- e^+$	Aarnio 90B Adeva 90C Akray 90 Akray 90E Akray 90K Alitti 90B Alitti 90C Kuhlen 90 Watts 90 Aarnio 89 Abe 89Q Abe 89R Abe 89T Abrams 89C Adeva 89 Akray 89 Akray 89E Albajar 89B Burchat 89 Decamp 89 Decamp 89B Decamp 89G Geer 89 Jenni 89 Kamon 89 Stubenrauch 89 Weinstein 89 Plothowbesch 88 Tao 88 Albajar 87 Ansari 87E Cenci 87 Repellin 87 Appel 86 Stubenrauch 86 Arnison 85D Levi 85	$\mu^+ \mu^{*-}$	Akray 90G Decamp 90G
$\bar{\Lambda} \pi^0$	Kopke 89 Pelzer 89 Beretvas 86	2sparticle	Barklow 90 Akray 89E	$e^- X$	Aarnio 90B Adeva 90C Akray 90E Akray 90K Alitti 90B Kuhlen 90 Watts 90 Aarnio 89 Abe 89Q Abe 89R Abe 89T Abrams 89C Adeva 89 Akray 89 Akray 89E Albajar 89B Burchat 89 Decamp 89 Decamp 89B Decamp 89C Decamp 89G Geer 89 Jenni 89 Kamon 89 Stubenrauch 89 Weinstein 89 Plothowbesch 88 Tao 88 Albajar 87 Ansari 87E Cenci 87 Repellin 87 Appel 86 Stubenrauch 86 Arnison 85D Levi 85	$\mu^+ \mu^{*-}$	Akray 90I Decamp 90C
$Y^*(\text{unspec})$	Henrard 87	3γ	Akray 90F	$\eta \gamma$	Decamp 90C	$\mu^\pm X$	Decamp 90C
$Y^*(\text{unspec})^0$	Bolonkin 89 Bitjukov 85C	4jet	Akray 89C	$\eta' \gamma$	Akray 90F Decamp 90B	$\mu^- \mu^+$	Akray 90I
$Y^*(\text{unspec})^0$	Bolonkin 88	5jet	Akray 89C	$\eta' \gamma$	Decamp 90B	$\mu^- \mu^+$ higgs	Akray 90G Decamp 90G
Y_b	Kozma 90 Kozma 88	$\bar{b} b$	Adeva 90D Decamp 90C Kral 89	γ 2neutral (neutrals)	Decamp 90B	$\mu^- \mu^+$	Abreu 90F Akray 90J Akray 90N Decamp 90E Decamp 90H Decamp 89C
Y_t	Kozma 90	$b' X$	Weinstein 89	γ 2neutralino	Akray 90M	$\mu^- \mu^+$	Aarnio 90B Adeva 90B Adeva 90C Akray 90 Akray 90E Akray 90K Kuhlen 90 Nash 90 Abe 89R Abe 89T Abrams 89C Adeva 89 Akray 89E Albajar 89B Burchat 89 Decamp 89B Decamp 89C Feldman 89 Feldman 89B Geer 89 Hearty 89 Jenni 89 Krauss 89 Smith 89 Stubenrauch 89 Weinstein 89 Tao 88 Albajar 87 Cenci 87 Arnison 86C Levi 85
$^{84}Y_t$	Butsev 85	$\bar{b}' b'$	Abreu 90B Abrams 89F Akray 89B	γ hadron (hadrons)	Akray 90H	$\mu^- X$	Decamp 90C
$^{86}Y_t$	Butsev 85	charged-hadron X	Akray 90L Komamiya 89C Weinstein 89	heavy-lepton ⁺ X	Akray 90B	mult[charged] (neutrals)	Abreu 90D
$^{87}Y_t$	Kozma 90 Kozma 88 Butsev 85	$\bar{c} c$	Decamp 90C	heavy-lepton ⁻		mult[jet]	Feldman 89B
$^{87}Y_t^*$	Butsev 85	$e^{*-} e^{*+}$	Akray 90G Decamp 90G	heavy-lepton ⁺	Soderstrom 90 Akray 89D Decamp 89E	neutral (neutrals) 2jet	Abreu 90E
Z^0	Alitti 90 Burchat 90 Nash 89 Salvini 88 Ansari 87C Richard 87 Rubbia 86 Vuillemin 85	$e^+ e^{*-}$	Akray 90G Decamp 90G	$e^+ e^{*-}$	Akray 90B		

Z⁰

Z⁰	<p>ν heavy-lepton⁰ Akrawy 90I</p> <p>$\nu \bar{\nu}^*$ Decamp 90I</p> <p>$\nu \bar{\nu}$ higgs Abreu 90F Akrawy 90J Akrawy 90N Decamp 90E</p> <p>$\nu \bar{\nu}$ jet Decamp 89C</p> <p>$\nu \bar{\nu}$ Decamp 89G Jung 89 Albajar 86B</p> <p>$\nu^* \bar{\nu}^*$ Decamp 90I</p> <p>$\bar{\nu}$ heavy-lepton⁰ Akrawy 90I</p> <p>$\bar{\nu} \nu^*$ Decamp 90I</p> <p>$\pi^0 \gamma$ Akrawy 90F Decamp 90B</p> <p>$q \bar{q}$ higgs Abreu 90F</p> <p>$q \bar{q}$ Decamp 89E Meier 89 Ansari 87B Cenci 87 Repellin 87</p> <p>$\bar{e}^- \bar{e}^+$ Akesson 90B Adeva 89B Akrawy 89E Albajar 89B Decamp 89D Ansari 87D</p> <p>$\bar{l}^+ \bar{l}^-$ Soderstrom 90 Decamp 89D</p> <p>$\bar{\mu}^- \bar{\mu}^+$ Adeva 89B Akrawy 89E Decamp 89D</p> <p>$\bar{q} \bar{q}$ Abreu 90E</p> <p>$\bar{\tau}^- \bar{\tau}^+$ Akrawy 89E Decamp 89D</p> <p>$\tau^{*+} \tau^{*-}$ Akrawy 90G Decamp 90G</p> <p>$\tau^+ \tau^{*-}$ Akrawy 90G Decamp 90G</p> <p>$\tau^\pm X$ Akrawy 90I</p> <p>$\tau^- \tau^{*+}$ Akrawy 90G Decamp 90G</p> <p>$\tau^- \tau^+ + \mu^- \mu^+ +$ 2hadron (hadrons) Abrams 89B</p> <p>$\tau^- \tau^+$ higgs Abreu 90F Decamp 89C</p> <p>$\tau^- \tau^+$ Aarnio 90B Adeva 90B Akrawy 90 Akrawy 90E Akrawy 90K Kuhlen 90 Nash 90 Abrams 89C Abrams 89E Burchat 89 Decamp 88B Decamp 89C Feldman 89</p>
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Z⁰	<p>Feldman 89B Hearty 89 rauss 89 Weinstein 89</p> <p>technipion⁺ technipion⁻ Akrawy 90D</p> <p>top X Weinstein 89</p> <p>$\bar{t} \text{ top}$ Decamp 89E</p> <p>$\bar{l} \text{ l}$ Abreu 90B Abrams 89F Akrawy 89B Decamp 89E</p> <p>wino⁻ wino⁺ Adeva 89B Decamp 89D Ansari 87D</p>
zino	<p>2l higgsino Behrend 87</p> <p>$q \bar{q}$ higgsino Behrend 87</p>
Zn	<p>Kozma 90 Kozma 88</p>
62Zn	<p>Arakelyan 90</p>
63Zn	<p>Arakelyan 90</p>
65Zn	<p>Kozma 88B</p>
72Zn	<p>Butsev 85 Wagner 85</p>
Z'	<p>Geer 89 Kim 89E Stubenrauch 89</p> <p>2jet Alitti 90D</p> <p>$e^- e^+$ Albajar 89B Ansari 87D</p>
Zr	<p>Kozma 90</p>
88Zr	<p>Butsev 85</p>
90Zr	<p>Butsev 85 Hufner 85</p>
90Zr	<p>Lee 88 Phan 85</p>
94Zr	<p>⁹⁴Mo 2e⁻ 2$\bar{\nu}_e$ Barabash 88</p> <p>⁹⁴Mo 2e⁻ Barabash 88 Norman 87</p>
96Zr	<p>⁹⁶Mo 2e⁻ 2$\bar{\nu}_e$ Barabash 89B Barabash 88</p> <p>⁹⁶Mo 2e⁻ majoron Barabash 89B</p> <p>⁹⁶Mo 2. - Barabash 89B Barabash 88 Norman 87</p>

Entries in order of the equivalent English spelling. Certain chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 297.

This index lists papers by the accelerator, the experiment number, and the detector used, ordered alphabetically. The Accelerator Vocabulary and the Detector Vocabulary list all the facilities used by papers indexed in this book.

A question mark indicates that the information is missing, usually because it was not given in the paper. A dash mark indicates that the position cannot be filled in.

Illustrative Key

Accelerator: see the *Accelerator Vocabulary* for definitions.

Detector: see the *Detector Vocabulary* for definitions.

ANL	
ANL-E-412	
DBC-12FT	Mann 86
ANL-E-435	
CNTR	Auer 86
SPEC	Auer 86B
WIRE	Auer 86
ANL-E-441	
EMS	Finley 85
ANL-E-447	
SPEC	Auer 88
ANL-E-451	
EMS	Wicklund 85
	Wicklund 87
BNL	
BNL-673-593	
MPS	Bensinger 85
BNL-701	
COMB	Franklin 87
BNL-702	
COMB	Snow 85
BNL-723	
SPEC	Gall 88
	Hertzog 88
BNL-726	
WIRE	Christenson 85
BNL-732	
CALO	Chiang 86

Document ID: see the *ID/Reference/Title Index* for the full reference.

Experiment: the experiment's number, where known.

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ANL	
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ANL-E-435	
SPEC	Auer 86 Auer 86B
ANL-E-441	
EMS	Fuiley 85
ANL-E-447	
SPEC	Auer 88
ANL-E-451	
EMS	Wicklund 87 Wicklund 85
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HEBC-50CM	Dalitz 90

BNL	
BNL-673-593	
MPS	Bensinger 85
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COMB	Franklin 87
BNL-702	
COMB	Snow 85
BNL-723	
SPEC	Gall 88 Hertzog 88
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DBC-7FT	Kitagaki 86
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WIRE	Fickinger 86B Ashford 85 Ashford 85B
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COMB	Dukes 87 Sullivan 87
BNL-747	
MPS	Etken 88 Longacre 87 Longacre 86B Etken 85
BNL-748	
DAS	Court 86 Cameron 85B Raymond 85
BNL-749	
SPEC	Blatt 85
BNL-751	
MPS-II	Bensinger 88
BNL-755	
DAS	Bailer 88 Blazey 85 Heppelmann 85
BNL-758	
SPEC	Milner 85B
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SPEC	Grace 85
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MPS-II	Longacre 86
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COMB	Ahrens 87 Ahrens 87B
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SPEC	Mahi 88 Sangster 87
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DAS	Khiani 89
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SFM	Bell 86 Bell 86B Breakstone 86F Bell 85 Bell 85B Bell 85C Bell 85D Breakstone 85D
CERN-R-419	
SFM	Breakstone 90 Geist 89 Breakstone 88 Breakstone 87 Breakstone 86 Breakstone 86B Breakstone 86D Breakstone 86E Breakstone 86G Breakstone 85 Breakstone 85C
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SFM	Breakstone 89 Breakstone 89B Breakstone 88B Breakstone 88C Falbri 88 Breakstone 86C Breakstone 86F Breakstone 85B
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COMB	Baglin 89B Baglin 89C

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CERN-PBAR/P

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CERN-R-807 AFS	Anassontzis 90 Akesson 89 Akesson 88D Kvatadze 88 Akesson 87 Akesson 87C Akesson 87E Akesson 86 Akesson 86B Akesson 86C Akesson 86D Akesson 86E Akesson 86F Akesson 85 Akesson 85B Akesson 85D Akesson 85E Akesson 85F Akesson 85G Akesson 84B	CERN-PS-183 SPEC	Angelopoulos 88 Angelopoulos 88B Angelopoulos 86 Angelopoulos 85		
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Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 359.

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CERN-PS-160 RMS	Candlin 85
CERN-PS-166 SPEC	Bertini 84
CERN-PS-174 CNTR	Gorringe 85
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CERN-PS-181 CHARM	Bergsma 88
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CERN-EMU-007 EMUL	Holynski 89
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CERN-EMU-009 EMUL	Baroni 90
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CERN-NA-004 SPEC	Benvenuti 89 Benvenuti 89B Benvenuti 89C Benvenuti 87 Benvenuti 87B Benvenuti 87C Benvenuti 87D Benvenuti 86 Bari 85 Benvenuti 85 Kupp 85
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CERN-NA-007 SPEC	Klar 84 Capraro 87 Amendolia 86 Amendolia 86B Amendolia 85
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CERN-SPS

CERN-SPS

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Bamberger 89
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PLASTIC

MANY
PLASTIC

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FREJUS

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KAMIOKANDE-I

UNDERGROUND-KAMIOKA-II

KAMIOKANDE-II

Oyama 86
Hirata 90
Hirata 90B
Hirata 89
Hirata 89B
Hirata 89C
Hirata 89D
Suzuki 89
Takita 89B
Totsuka 89B
Hirata 88B
Hirata 88C
Hirata 88D
Hirata 88E
Zhang 88

UNDERGROUND-LSD

LSD

Aglietta 86B
Battistoni 86C

UNDERGROUND-MACRO

EAS-TOP

MACRO

Bellotti 89E
Bellotti 89C
Bellotti 89E
Bellotti 89F
Bellotti 89H
Klein 89B

UNDERGROUND-NUSEX

NUSEX

Aglietta 89
Calicchio 87
Dadykin 87
Battistoni 86B
Battistoni 85

DESY-DORIS-II

DESY-DORIS-II

Albrecht 88E
Albrecht 88F
Albrecht 88G
Albrecht 88H
Albrecht 88I
Albrecht 88J
Albrecht 88K
Albrecht 88L
Albrecht 88M
Albrecht 88N
Albrecht 88O
Albrecht 88P
Albrecht 88Q
Albrecht 88R
Albrecht 88S
Albrecht 88T
Danilov 88
Albrecht 87B
Albrecht 87C
Albrecht 87D
Albrecht 87E
Albrecht 87F
Albrecht 87G
Albrecht 87H
Albrecht 87I
Albrecht 87J
Albrecht 87K
Albrecht 87L
Albrecht 87M
Albrecht 87N
Albrecht 87O
Albrecht 87P
Albrecht 87Q
Albrecht 87R
Albrecht 87S
Albrecht 87T
Albrecht 86
Albrecht 86B
Albrecht 86C
Albrecht 86D
Albrecht 86E
Albrecht 86F
Albrecht 86G
Albrecht 85
Albrecht 85B
Albrecht 85C
Albrecht 85D
Albrecht 85E
Albrecht 85F
Albrecht 85G
Albrecht 85H
Albrecht 85I
Albrecht 85J
Albrecht 85K
Albrecht 85L
Albrecht 85M
Albrecht 85N

DESY-DORIS-CRYS-BALL

CRYS-BALL Janssen 90

DESY-DORIS-CRYSTAL-BALL

CRYS-BALL Marsiske 90
Janssen 89
Maschmann 89
Schutte 89
Wachs 89
Bierlein 88
Fairfield 88
Jakubowski 88
Keh 88B
Schmitt 88
Williams 88
Antreasyan 87
Lurz 87
Skwarnicki 87
Skwarnicki 87B
Antreasyan 86
Leffler 86
Lowe 86
Lowe 86B
Lowe 86C
Gelpman 85
Iron 85
Lowe 85
Nernst 85
Skwarnicki 85B

DESY-DORIS-II

Walk 85

DESY-PETRA

DESY-PETRA-CELLO
CELLO

Behrend 89
Behrend 89B
Behrend 89C
Behrend 89D
Behrend 89E
Behrend 89F
Behrend 89G
Behrend 89H
Behrend 89I
Behrend 89J
Feindt 89
Kroha 89B
Behrend 88
Behrend 88B
Behrend 88C
Behrend 88D
Behrend 88E
Behrend 88F
Behrend 88G
Behrend 87
Behrend 87B
Behrend 87C
Behrend 87D
Behrend 87E
Aleksan 86
Behrend 86
Behrend 86B
Behrend 86C
Behrend 86D
Behrend 85
Behrend 85B

DESY-PETRA-JADE

JADE

Elsen 90
Greenshaw 89
Hegner 89
Hill 89
Kleinwort 89
Pitzl 89
Bethke 88
Ouldsaada 88
Bartel 87
Bartel 87B
Bartel 87C
Naroska 87
Bartel 86
Bartel 86B
Bartel 86C
Bartel 86D
Bartel 86E
Bartel 86F
Bartel 86G
Bartel 86H
Kuhlen 86B
Bartel 85
Bartel 85B
Bartel 85C
Bartel 85D
Bartel 85E
Bartel 85F
Bartel 85G
Bartel 85H
Bartel 85J
Bartel 85K
Bartel 85L
Bartel 85M
Bartel 84G

DESY-PETRA-MARK-J

MARK-J

Adeva 88
Adeva 87
Adeva 86
Adeva 86B
Adeva 86C
Adeva 85
Adeva 85B
Adeva 85C

DESY-PETRA-PLUTO

PLUTO

Ouldsaada 89
Burger 88
Burger 88B
Ferrarotto 88
Burger 87

DESY-PETRA

Berger 87C
Berger 86
Berger 85
Berger 85B
Berger 85C
Berger 85D
Berger 85E
Berger 85F
Berger 85G
Berger 85H

DESY-PETRA-TASSO

TASSO

Braunschweig 90
Braunschweig 90B
Braunschweig 89
Braunschweig 89B
Braunschweig 89C
Braunschweig 89D
Braunschweig 89E
Braunschweig 89F
Braunschweig 89G
Braunschweig 89H
Braunschweig 89I
Braunschweig 89J
Braunschweig 89K
Braunschweig 89L
Genser 89
Braunschweig 88
Braunschweig 88B
Braunschweig 88C
Braunschweig 88D
Braunschweig 88E
Braunschweig 88F
Braunschweig 88G
Braunschweig 87
Braunschweig 87B
Althoff 86
Althoff 86B
Althoff 86C
Althoff 86D
Braunschweig 86
Althoff 85
Althoff 85B
Althoff 85C
Althoff 85D
Althoff 85E
Althoff 85F
Althoff 84R

MANY

Ouldsaada 88B
Barlow 87
Kolanoski 86
Kiesling 85
Venkataraman 85B

DGSJ

SPEC

Koenig 89

FNAL

FNAL-053A
HLBC-15FT

Baker 89
Baker 86
Baltay 86
Brucker 86
Baker 85
Baker 85B
Baker 85C
Brucker 85

FNAL-087

SPEC

FNAL-087A

COMB

FNAL-138

HBC-30IN

FNAL-180

HLBC-15FT

Lamm 87
Hartouni 85
Okusawa 88

Ammosov 88
Ammosov 88C
Ammosov 87
Ammosov 87B
Ammosov 87F
Asratyan 87
Asratyan 87B
Asratyan 87C
Ammosov 86
Ammosov 86B

FNAL

FNAL-COLLIDER

FNAL	Ammosov 86C Ammosov 86D Ammosov 86E Ammosov 86F Ammosov 86G Asratyan 86 Asratyan 86B Asratyan 85 Asratyan 85B Ammosov 84G Ammosov 84H	FNAL	FNAL-568 EMUL FNAL-570 HBC-30IN-HYB FNAL-574 EMUL FNAL-580 FMPS FNAL-584 SPEC FNAL-591 SPEC FNAL-594 CALO FNAL-597 HBC-30IN-HYB FNAL-609 CALO FNAL-610 CYCLOPS FNAL-612 TREAD FNAL-613 CALO FNAL-615 SPEC FNAL-616 LAB-E FNAL-617 SPEC FNAL-619 SPEC FNAL-620 WIRE FNAL-623 FMPS FNAL-630 STRC FNAL-650 SPEC FNAL-663 SPEC FNAL-673 CCM FNAL-701 LAB-E FNAL-715 COMB	Jurie 86 Brick 90 Brick 89 Fueser 87 Brick 86 Holynski 86 Babecki 85 Joyner 89 Arenton 86 Mikocki 86 Bernstein 88 Bujak 85 Bofill 87 Bogert 86 Mukherjee 86 Bogert 85 Bogert 85B Toothacker 87 Biswas 86 Moore 90 Miettinen 88 Nelson 87 Naudet 86 Arenton 85 Arenton 85B Budd 85 Chapin 85 Duffy 88 Duffy 86 Duffy 85 Romanowski 85 Conway 89 Heinrich 89 Biino 87 Alexander 86 Louis 86 Palestini 85 Reutens 90 Mishra 89 Lang 87 Mishra 87 Reutens 85 Woods 88 Carlsmith 87 Carlsmith 86 Bernstein 85 Cupal 85 Petersen 86 Wah 85 Davenport 86 Green 86 Torres 85 Georgiopoulos 84 Tzeng 85 Fitch 86 Gourlay 86 Bauer 85 Stockdale 85 Trost 89	FNAL	Hsueh 88 Zapalac 86 Hsueh 85 ? DBC-30IN DBC-30IN-HYB EMUL HBC-30IN HLBC-15FT HLBC-30IN SPEC EMUL FNAL-COLLIDER FNAL-710 CNTR FNAL-713 CNTR FNAL-735 SPEC FNAL-741 CDF Hsueh 88 Bhattacharje 90 Bhattacharje 89B Bhattacharje 89C Lyukov 89 Abduzhamilov 88 Boos 88B Jain 88 Shivpuri 88B Takibaev 88 Jain 87C Shivpuri 87 Boos 86C Absetmetova 85 Aggarwal 85 Andreeva 85B Azimov 85 Batusov 85 Batusov 85B Artykov 86 Baldin 87B Alimov 89 Alimov 89B Alimov 88 Alimov 85 Azimov 85E Azimov 85F Azimov 84B Dworkin 90 Shivpuri 88 Amos 90 Amos 90B Amos 89 Amos 88 Price 87 Alexopoulos 90 Banerjee 89 Alexopoulos 88B Turkot 88 Abe 90B Barbarogalti 90 Binkley 90 Gladney 90 Harris 90 Heasing 90 Liss 90 Watts 90 Abe 89 Abe 89B Abe 89C Abe 89D Abe 89H Abe 89L Abe 89M Abe 89N Abe 89O Abe 89Q Abe 85R Abe 89S Abe 89T Blair 89 Freeman 89 Geer 89 Hubbard 89B Kamon 89 Paoletti 89 Sinervo 89 Skarha 89 Smith 89 Tonelli 89 Wagner 89 Abe 88C Tonelli 88
FNAL-203A MMS FNAL-272 COMB FNAL-326 COMB FNAL-350 CNTR FNAL-380 HLBC-15FT FNAL-381 SPEC FNAL-385 EMUL FNAL-401 SPEC FNAL-439 SPEC FNAL-495 SPEC FNAL-497 WIRE FNAL-515 SPEC FNAL-516 TPS FNAL-531 COMB FNAL-533 SPEC FNAL-537 SPEC FNAL-545 DBC-15FT FNAL-546 HLBC-15FT-HYB FNAL-555 SPEC FNAL-557 FMPS FNAL-564 HLBC-15FT-HYB	Meyers 86 Huston 86 Zielinsky 86 Greenlee 85 Kennett 87 Baltay 85 Gorshkova 85 Aziz 85 Busennitz 89 Lamm 87 Childers 85 Beretvas 86 Cardello 84 Thron 84 Mooney 89 Ginther 87 Kennett 87B Ushida 88 Ushida 88B Ushida 86 Ushida 86B Ushida 86C Aronson 86 Anassontzis 87 Katsanevas 87 Anassontzis 85 Cole 88 Hanlon 85 Ballagh 89 Ballagh 86 Lundberg 89 Luk 88 Wilkinson 87 Ahn 87 Ahn 86 Anmar 89 Anmar 89B Batusov 89B Anmar 88 Batusov 88C Ammosov 87C Batusov 87 Batusov 87B Smart 86 Voyvodic 86 Voyvodic 86B Voyvodic 85 Brick 90 Brick 89 Abe 88					

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 359.

FNAL-TEV

FNAL-TEV	
FNAL-400 SPEC	Shipbaugh 88B Coteus 87 Coteus 87B Cumalat 87 Cumalat 87B Diesburg 87 Filaseta 87B Shipbaugh 87
FNAL-508 EMUL	Abduzhamilov 89 Abduzhamilov 88B Abduzhamilov 88C Barbier 88 Abdurazakova 87 Abduzhamilov 87
FNAL-516 TPS	Sliwa 83
FNAL-557 FMPS	Gomez 86 Gomez 86B
FNAL-581-704 CALO	Akchurin 89 Underwood 89 Akchurin 89 Underwood 89
SPEC	
FNAL-605 SPEC	Brown 89 Jaffe 89 Yoshida 89 Jaffe 88 Brown 86 Brown 86B Crittenden 86 Hsiung 85
FNAL-621 WIRE	Grossman 87
FNAL-632 HLBC-15FT-HYB	Aderholz 89
FNAL-672 FMPS	Kartik 90 Stewart 90 De 89 Gomez 86
FNAL-691 TPS	Anjos 90 Anjos 90B Anjos 89 Anjos 89B Anjos 89C Anjos 88 Anjos 88B Anjos 88C Anjos 88D Anjos 88E Anjos 88F Anjos 88G Anjos 87 Anjos 87B Anjos 87C Anjos 87D Raab 87 Anjos 86 Sokoloff 86 Bhadra 85
FNAL-704 SPEC	Bonner 88B
FNAL-706 FMPS	De 89
FNAL-711 CALO	Streets 89
SPEC	Streets 89
FNAL-723 OTHER	Reiner 86
FNAL-731 SPEC	Patterson 90 Yamanaka 90 Papadimitriou 89 Winstein 89 Yamanaka 89 Gibbons 88 Hsiung 88
FNAL-743 FMPS	Ammar 88B

FNAL-TEV	
HBC-LEBC-HYB	Anmar 87 Ammar 86B Ammar 88B Ammar 87 Ammar 86B
FNAL-744 LAB-E	Foudas 86 Foudas 88B Schumm 88 Merritt 87 Merritt 87B
FNAL-745 HLBC-1M FNAL-747 OTHER	Kitagaki 88 Matis 88 Matis 86
FNAL-750 EMUL FNAL-751 EMUL	Shivpuri 87B Jain 87B Jain 86
FNAL-770 LAB-E FNAL-774 SPEC ?	Mishra 89B Bross 89 Mishra 90 Guo 89 Kaplan 89
SPEC	
FRAS-ADONE	
CNTR	Barnabei 86 Desantics 86
GANIL	
COMB	Bougault 90
GRON-CYC	
CNTR	Klinken 88
IND-CYC	
CNTR	Krofcheck 87 Sowinski 87 Anderson 85B Goodman 85 Krofcheck 85 Wagner 85 Wang 85D Warner 85 Dickey 85 Glover 85B Rapaport 85 Meyer 85D Segel 85 Wang 85D
SPEC	
WIRE	
INRU-240	
CNTR	Dubar 89
ITEP	
ITEP-E-741 HLBC-1M ITEP-E-761 HLBC-1M	Vorobiev 84C Barmin 88B Barmin 87 Barmin 86 Barmin 86C Barmin 85
ITEP-E-762 MTS	Abramov 89B Abramov 88 Abramov 87 Abramov 85
ITEP-E-763 HBC-2M	Andryakov 89 Brovkin 89 Drutskoy 89 Drutskoy 88 Perepelitsa 88

ITEP	Aleshin 87 Aleshin 87C Aleshin 87D Andryakov 87 Drutskoy 87 Drutskoy 87B Mikhajlichen 87 Perepelitsa 87 Aleshin 86 Aleshin 86B Aleshin 85 Arutyunants 85 Aleshin 84
ITEP-E-771 BAS	Vorobiev 89B Vorobiev 87B Vorobiev 86B Bayukov 85C Bayukov 85D Bayukov 85E Bayukov 85F Gavrilo 85B Vorobiev 85B
ITEP-E-781 TISS-3	Arefiev 87 Arefiev 86 Arefiev 86B
ITEP-E-782 HBC-80CM	Abdullin 90 Abdullin 89 Abdullin 89B Abdullin 89C Abdullin 89D Abdullin 89E Abdullin 89F Abdullin 89G Abdullin 88 Abdullin 88B Abdullin 88C Abdullin 88D Blinov 86 Abdullin 87 Blinov 87B Blinov 86 Blinov 85 Blinov 85D Blinov 84B
ITEP-E-784 MTS	Abramov 89C
ITEP-E-801 SPIN	Alekseev 89B Alekseev 88B Budkovsky 85
ITEP-E-802 HLBC-DIANA	Demidov 89 Barmin 86B
ITEP-E-804 TISS-3	Arefiev 90 Arefiev 90B
ITEP-E-811 SPEC	Balats 87 Berezin 86
ITEP-E-812 ISTRA-3	Burgov 87 Buklej 86 Burgov 86 Burgov 85
ITEP-E-813 BAS	Vlasov 90 Vorobiev 90 Vorobiev 90B Bayukov 89 Bayukov 89B Bayukov 89C Vlasov 89 Vlasov 89B Vorobiev 89C Bayukov 88 Vlasov 88 Vorobiev 88E Vorobiev 87B Vorobiev 87C Bayukov 86 Vlasov 86 Vorobiev 86

ITEP

ITEP	JINR
Bayukov 85	Adyasevich 89
Bayukov 85B	Abraamyan 88
ITEP-E-814	Adyasevich 88B
HLBC-1M	Avdejchikov 88
ITEP-E-822	Avramenko 88
SPEC	Beznogikh 88
ITEP-E-823	Golovin 88
CNTR	Karev 88
ITEP-E-831	Lebedev 88
SPEC	Voronko 88
	Adyasevich 87
	Adyasevich 87B
	Alekseev 87B
	Avdejchikov 87
	Avdejchikov 87B
	Avdejchikov 87C
	Avdejchikov 87E
	Avdejchikov 87F
	Avdejchikov 87G
	Avdejchikov 87H
	Avdejchikov 87I
	Avdejchikov 86
	Abashidze 85
	Abashidze 85B
	Adyasevich 85
	Adyasevich 85B
	Adyasevich 85C
	Anikina 85C
	Avdejchikov 85
	Verev 85
	Abashidze 84
	Budilov 90
	Averchikov 87
	Averichev 89
	Babaev 90
	Ghosh 90
	Ghosh 90B
	Ameeva 89
	Andreeva 89
	Ghosh 89
	Ghosh 89C
	Ghosh 89D
	Khan 89
	Lepekhnin 89
	Abdurazakova 88
	Alekseeva 88
	Andreeva 88
	Andreeva 88B
	Andreeva 88C
	Bogdanov 88
	Dubinina 88
	Elnadi 88
	Khan 88
	Krasnov 88
	Krasnov 88B
	Vokal 88
	Ameeva 87
	Antonchik 87
	Bannik 87
	Bannik 87B
	Elnaghy 87
	Elnaghy 87B
	Ghosh 87
	Krasnov 87
	Andreeva 86
	Andreeva 86B
	Ghosh 86
	Krasnov 86
	Leskin 86
	Shabratova 86
	Andreeva 85C
	Antonchik 85
	Ghosh 85
	Vokalova 85
	Avramenko 87
	Glagolev 90
	Braun 89
	Glagolev 89
	Glagolev 89B
	Glagolev 89C
	Antos 88
	Balgansuren 88
	Glagolev 88
	Glagolev 88B
	Shimansky 88
	Sobchak 88
	Troyan 88
	Zelinski 88
	Antos 87
	Bano 87
	Glagolev 87
	Bajramov 86
	Bano 86
	Beshliu 86
	Dolidze 86
	Dzhincharadz 86
	Glagolev 86
	Glagolev 86B
	Troyan 86
	Zelinski 86
	Glagolev 85
	Bajramov 89
	Abdinov 87
	Arakelyan 87
	Gulkanyan 87
	Abdinov 86
	Abdinov 86B
	Abdinov 86C
	Asaturyan 86
	Bajramov 86
	Pavlyak 86
	Pavlyak 86B
	Agababayan 85B
	Abdinov 84B
	Baatar 90
	Shahbazyan 90
	Agakishiev 89B
	Agakishiev 89C
	Angelov 89
	Armutlijsky 89
	Bajramov 89
	Gulkanyan 89
	Viryasov 89
	Agakishiev 88
	Angelov 88
	Armutlijsky 88
	Batskovich 88
	Bekmirzaev 88
	Bekmirzaev 88B
	Bekmirzaev 88C
	Grigalashvil 88
	Grishin 88B
	Gulkanyan 88
	Gulkanyan 88B
	Gulkanyan 88C
	Gulkanyan 88D
	Kanarek 88
	Lyubimov 88
	Mekhtiev 88
	Shahbazyan 88
	Agakishiev 87
	Armutlijsky 87
	Armutlijsky 87B
	Armutlijsky 87D
	Bekmirzaev 87
	Bekmirzaev 87B
	Bekmirzaev 87C
	Grishin 87
	Gulkanyan 87B
	Gulkanyan 87C
	Gulkanyan 87D
	Iovchev 87
	Kopylova 87
	Agakishiev 86B
	Armutlijsky 86
	Armutlijsky 86B
	Armutlijsky 86C
	Balea 86
	Bekmirzaev 86
	Bialkowska 86
	Grishin 86B
	Kopylova 86
	Kopylova 86E
	Kutsidi 86
	Simich 86
	Agakishiev 85
	Akhababian 85
	Ameev 85
	Armutlijsky 85

JINR	JINR
JINR-E-86-01	
MASPIC	Azhgirej 88
	Azhgirej 87
	Azhgirej 86
	Azhgirej 85
JINR-E-86-03	
ALPHA-POLIS	Ableev 89
	Ableev 88
	Ableev 87
	Ableev 87B
	Ableev 87C
	Ableev 87D
	Ableev 87E
	Ableev 86
	Ableev 85
	Ableev 84B
JINR-E-86-04	
GIBS	Abdurakhimov 89C
	Anikina 86C
SERP-E-017	
HLBC-2M	Baatar 89
	Baatar 88
	Baldin 88C
	Agakishiev 87B
	Agakishiev 87C
	Armutlijsky 87C
	Baatar 87B
	Kopylova 86B
CNTR	Abraamyan 89

DAS
DISC
DISC-3
EMUL

GIBS
HBC-1M

JINR	JINR
	HLBC-1M
	HLBC-2M

KHAR

LENI

KHAR		LAMPF		LBL-BEVALAC	
COMB	Akhmerov 87 Zybalov 90 Zybalov 90B Zybalov 88 Bratashvsky 87B Bratashvsky 87B Bratashvsky 86 Bratashvsky 86B Bratashvsky 86C Bratashvsky 85 Bratashvsky 85B Gorbenko 85 Belyaev 86B Kuplennikov 90 Ganenko 89 Dementy 88 Ganenko 88 Esaulov 87 Belyaev 86 Esaulov 86 Tonapetyan 85B	LAMPF-808 PHOTON LAMPF-898 EPICS LAMPF-961 WIRE LAMPF-969 CRYS-BOX LAMPF-985 CRYS-BOX ? CNTR	Mokhtari 86 Mokhtari 86B Mokhtari 85 Fitzgerald 86 Seestrommorr 85 Nath 89 Piilonen 86 Ni 87 Schutt 88 Shypit 88 Dropesky 86 Ohkubo 85 Wharton 85 Holtkamp 85 Mordechai 85 Ullmann 85 Hoistad 86 Adams 89 Barlow 88 Rees 86 Williams 89B Hicks 85 Peng 89 Fokni 88 Peng 87 Irom 85 Ransome 90 Gram 89 Parker 89 Mcnaughton 86 Leitch 85 Mishra 85 Wood 85 Boswell 86 Shypit 88 Hicks 85 Wharton 85	PLASTIC PLASTIC-BALL SPEC STRC	Mangotra 85 Waddington 85 Brechtmann 88 Ohashi 86 Bock 89 Bock 89B Gutbrod 89 Doss 88 Gustafsson 88 Doss 87 Doss 86 Kobayashi 89 Kobayashi 89B Kobayashi 89C Schretzer 89 Brady 88 Chacon 88 Kobayashi 88 Tanihata 88 Tanihata 86 Hallman 85 Tanihata 85 Miake 84 Harris 87
LAMPF		HRS HRSF		LBD-CYC-184IN	
LAMPF-032 COMB LAMPF-225 CNTR	McFarlane 85	LAS OTHER PIOSPEC		SPEC	Norman 87B
LAMPF-388 SPEC LAMPF-392	Allen 89 Allen 85B	SPEC		LBD-650	
LAMPF-398 HRSF LAMPF-400-445 CRYS-BOX	Ungricht 85 Barlett 85			SPEC	Belousov 88
LAMPF-518 SPEC LAMPF-546 EPICS LAMPF-585 LAHRS	Bolton 88 McDonough 88 Goldman 87 Bolton 86 Grosnick 86 Hogan 86			LBD-PAHRA	
LAMPF-635 JANUS	Glass 85B	WAS WIRE		DAS	Aibergenov 86
LAMPF-638 CALO LAMPF-645 COMB LAMPF-664 SPEC LAMPF-685 CNTR LAMPF-708 COMB	Pillai 88 Gazzaly 87 Pauletta 87 Tanaka 87	LASER		LENI	
LAMPF-770 WAS	Rahbar 87 Sun 85	OTHER	Gilbert 86B Gilbert 85	LENI-SC-021 SPEC	Alkhazov 85 Alkhazov 85B
LAMPF-783 SPEC	Dombek 87	LBL-BEVALAC		I ENI-SC-029 DAS	Chestnov 87
LAMPF-792 CNTR	Durkin 88	CERN-NA-040 PHOTON	Hill 88	LENI-SC-042 CLOUD	Ermakov 86 Ermakov 86B
LAMPF-795 CNTR LAMPF-804 COMB	Chalmers 85 Adams 87 Riley 87 Hollas 85	CNTR	Carroll 89 Danzmann 89 Shor 89 Tolstov 87 Abacii 85 Barasch 85 Dersch 85 Maded 85 Miller 87 Krebs 86 Hamagaki 85 Letessiersel 89 Letessiersel 89B Roche 39 Naudet 88 Naudet 88B Naudet 88C Roche 88 Roche 88B Roche 88C Roche 87 Roche 84	LENI-SC-052 DAS	Ermakov 86 Aleshin 90 Aleshin 87B Aleshin 87E
LAMPF-806 LAS	Garnett 89 Ditzler 87	DAS		LENI-SC-056 CNTR	Vovchenko 89 Bazhanov 85 Vovchenko 86B
	Ashery 88 Kinney 86	DLS		LENI-SC-062 SPEC	Strakovsky 86 Borkovsky 84
	Yuan 86 Harper 85	EMUL		LENI-SC-063 WIRE	Abaev 88B Bekrenev 86 Bekrenev 85B
	Seth 85			LENI-SC-066 WAS	Baturin 27 Baturin 87B Baturin 86 Baturin 85
	Kim 90 Kim 89 Kim 89D Wightman 87 Kim 86			LENI-SC-074 SPEC	Andronenko 86 Roepke 85
	Barlow 89 Seftor 89 Wightman 88 Sadler 87			LENI-SC-085 SPEC LENI-SC-086 CNTR	Belostotsky 84 Vovchenko 89B Bazhanov 88B Borisov 86
				LENI-SC-087 SPEC LENI-SC-088 SPEC	Abrsimov 85 Velichko 88 Velichko 85
				LENI-SC-097 CNTR	Koptyev 88 Abrsimov 85B

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 359.

LENI	MANY	MANY	
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EMUL	Takibaev 90 Adamovich 89B Adamovich 89E Kumar 89 May 89B Atageldieva 88 Jain 88B Otterlund 88 Holynski 86B Kim 85 Bagdasaryan 90 Chliapnikov 90 Aliiev 89 Artuso 89B Barbarogalti 89 Bartke 89 Bethke 89B Buschbeck 89 Eggert 89 Feyard 89 Franzini 89 Gilman 89 Guaraldo 89 Guaraldo 89B Hayes 89 Hayes 89B Hohler 89 Holder 89 Itep 89 Jenni 89 Kass 89 Klein 89C Kopke 89 Krauss 89 Lach 89 Lhote 89 Littenberg 89 London 89 Marshall 89 Maruyama 89 Mattig 89 Murtagh 89 Panagiotou 89 Peyaud 89 Piccolo 89 Schindler 89 Tannenbaum 89 Tosello 89 Zhckin 89 Albrow 88 Arends 88		
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MANZ-LINAC			
CNTR		Rose 90 Hiel 89 Spahn 89 Koch 89 Ottermann 85 Roehrich 85	
SPEC			
MIT-BLA			
AHEAD		Garcon 89	
CNTR		Beise 89 Turley 85 Kalantarnaye 89 Beck 87 Geesaman 89 Wise 85 Beise 89	
EL-3-Y			
SPEC			
WIRE			

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ORSA-DCI

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Szkliar 89
Ajaltouni 88
Ajaltouni 88B
Antonelli 88
Augustin 88
Augustin 88B
Bisello 88
Bisello 88B
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Jousset 88
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Tixier 88
Ajaltouni 87
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CNTR

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CNTR

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Mathie 85
Ottermann 85B

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CNTR

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CNTR

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Bertl 85

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CNTR

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CNTR

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Tatic 86
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Phan 85
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Mampe 89
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Tsertou 89
Tsertos 89B
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Vidyakin 89B
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Spivak 88
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Koch 86
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Avenier 85
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Bouchez 88
Mikaelyan 88
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Borzakov 87
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Ananiev 83
Kopeikin 90
Verzhinsky 90

COMB

MANY

OSPK

OTHER

PHOTON

RONS

RONS

RONS

RONS

RONS

RONS

RONS

RONS

RONS

RONS

RONS

RONS

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RONS

RONS

RONS

RONS

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Abe 85
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Butler 86

SLAC-BC-073
HBC-40IN-HYB

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Aston 88
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Cowan 88
Edberg 88
Mathis 88
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Aihara 87B
Aihara 87C
Aihara 87D
Aihara 87E
Aihara 87F
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Aihara 86F
Aihara 86G
Aihara 86H
Aihara 86I
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Riles 89B
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Wu 89
Amidei 88
Gidal 88
Gidal 88B
Karlen 88B
Karlen 88C
Klein 88
Ong 88
Ong 88B
Peterson 88
Riles 88
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Gan 87B
Klein 87

SLAC-PEP

TRIUMF

SLAC-PEP

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 Gladney 86B
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 Adler 88F
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We list here the particle names, ordered by English spelling. The first column gives the usual particle symbol, the second gives the English spelling, and the third gives a brief definition. The English spelling is the "computer name," the version to be used in searching our computer databases.

In the indices, the order of the charge states is $\tau, \tau^+, \tau^0, \tau^-, \tau^{--}$. For antiparticles, we use the actual charge of the antiparticle, as in $\bar{\Delta}^{--}$. All antiparticles are spelled with the suffix "BAR" appended to the English portion of the names, as "PBAR" for p , "DELTABAR(1900S31)0" for $\bar{\Delta}(1900S_{31})^0$, and "CHARMBAR" for charm, unless the antiparticle has a common name of its own, as in " K^+ ."

We use the chemical symbols for nuclei except in a few cases where an ambiguity with a particle name exists. For example, we use "KK" for potassium to avoid confusion with the K meson, and "Nit" for nitrogen to avoid confusion with the neutron and with nickel.

The names we use in writing any reaction are based on those used by the authors of the paper. For example, one paper might refer to π^+ , π^- , and π^0 particles while another just uses a π to mean all three.

Most of our particle names are obvious. A few general rules are given in the Introduction. Some of the particle names represent a group of particles whose exact number is not known: for example, " π^+ 's" (meaning two or more π^+ particles), "inelastic," ">3 charged," and so on. Names like these are treated as a single particle name in the Reaction Momentum Index, where the reaction final states are ordered by increasing multiplicity. We do give the exact number of particles when it is known, *e.g.*, " $3\pi^+$," "2charm," and these are treated as the stated number of particles.

(blacks)

<u>PARTICLENAME</u>	<u>COMPUTERNAME</u>	<u>EXPLANATION</u>
(blacks)	(BLACKS)	Zero or more black tracks, usually in emulsions
(charged-hadrons)	(CHARGED-HADRONS)	Zero or more charged hadrons
(charged-)	(CHARGEDS)	Zero or more charged particles plus possible neutrals
(fragb)	(FRAGB)	Zero or one beam fragment
(fragbs)	(FRAGBS)	Zero or more beam fragments
(frags)	(FRAGS)	Zero or more nuclear fragments
(γ 's)	(GAMMAS)	Zero or more γ 's
(greys)	(GREYS)	Zero or more grey tracks, usually in emulsions
(hadrons)	(HADRONS)	Zero or more hadrons
(jets)	(JETS)	Zero or more jets
(K^\pm 's)	(K+-S)	Zero or more K^\pm 's
(kaons)	(KAONS)	Zero or more unspecified kaons
(leptons)	(LEPTONS)	Zero or more unspecified leptons
(μ 's)	(MUONS)	Zero or more muons
(neutrals)	(NEUTRALS)	Zero or more neutral particles
(n's)	(NS)	Zero or more neutrons
(nucleons)	(NUCLEONS)	Zero or more unspecified nucleons
(ν 's)	(NUS)	Zero or more unspecified neutrinos
(π^\pm 's)	(PI+-S)	Zero or more π^\pm 's
(π^0 's)	(PIOS)	Zero or more π^0 's
(π 's)	(PIONS)	Zero or more pions
(p's)	(PROTONS)	Zero or more protons
0 fragb	OFRAGB	Exactly zero beam fragments
0 γ	OGAMMA	Exactly zero γ 's
0 htrack	OHTRACK	Exactly zero heavy tracks
0 jet	OJET	Exactly zero jets
0 K 's	OKS	Exactly zero K 's's
0 Λ	OLAMBDA	Exactly zero Λ 's
0 $\bar{\Lambda}$	OLAMBDABAR	Exactly zero $\bar{\Lambda}$'s
0 μ^\pm	OMU+	Exactly zero muons
0 ν_e	ONUE	Exactly zero ν_e 's
0 $\bar{\nu}_e$	ONUEBAR	Exactly zero $\bar{\nu}_e$'s
0 ν_μ	ONUMU	Exactly zero ν_μ 's
0 $\bar{\nu}_\mu$	ONUMUBAR	Exactly zero $\bar{\nu}_\mu$'s
0 p	OP	Exactly zero protons
0 π	OPI	Exactly zero pions
0 π^+	OPI+	Exactly zero π^+ 's
0 π^\pm	OPI+-	Exactly zero π^+ 's and π^- 's
0 π^-	OPI-	Exactly zero π^- 's
0 π^0	OPIO	Exactly zero π^0 's
0 strange	OSTRANGE	Exactly zero strange particles
0 vee	OVEE	Exactly zero neutral strange particle decays
$a_0(980)$	A0(980)	
$a_0(980)^+$	A0(980)+	Was $\delta(980)$
$a_0(980)^-$	A0(980)-	Was $\delta(980)$
$a_0(980)^0$	A0(980)0	Was $\delta(980)$
$a_1(1260)$	A1(1260)	
$a_1(1260)^+$	A1(1260)+	
$a_1(1260)^-$	A1(1260)-	
$a_1(1260)^0$	A1(1260)0	
$a_2(1320)$	A2(1320)	
$a_2(1320)^+$	A2(1320)+	
$a_2(1320)^-$	A2(1320)-	
$a_2(1320)^0$	A2(1320)0	
$a_3(2050)^-$	A3(2050)-	3 π state
$a_5(1790)^+$	A5(1790)-	
Ac	AC	Actinium nucleus
Ag	AG	Silver nucleus
Ag^*	AG*	Excited silver nucleus
^{104}Ag	AG104	Silver-104 radioactive isotope
$^{104}Ag^*$	AG104*	Excited silver-104 radioactive isotope
^{105}Ag	AG105	Silver-105 radioactive isotope
^{108}Ag	AG108	Silver-108 nucleus
^{111}Ag	AG111	Silver-111 radioactive isotope
Al	AL	Aluminum nucleus
Al^*	AL*	Excited aluminum nucleus
^{26}Al	AL26	Aluminum-26 nucleus

27Al

11Bor

<u>PARTICLENAME</u>	<u>COMPUTERNAME</u>	<u>EXPLANATION</u>
27Al	AL27	Aluminum-27 nucleus
241Am	AM241	Americium-241 nucleus
annihil	ANNIHIL	Pure annihilation final state in nucleon-antinucleon scattering
anomalou	ANOMALON	Anomalous nuclear fragment
Ar	AR	Argon nucleus
32Ar	AR32	Argon-32 nucleus
32Ar*	AR32*	Excited argon-32 nucleus
37Ar	AR37	Argon-37 nucleus
38Ar	AR38	Argon-38 nucleus
40Ar	AR40	Argon-40 nucleus
41Ar	AR41	Argon-41 radioactive isotope
As	AS	Arsenic nucleus
71As	AS71	Arsenic-71 radioactive isotope
72As	AS72	Arsenic-72 radioactive isotope
77As	AS77	Arsenic-77 nucleus
Cs(atom)	ATOM(CS)	Cesium atom
Au	AU	Gold nucleus
196Au	AU196	Gold-196 nucleus
197Au	AU197	Gold-197 nucleus
axigluon	AXIGLUON	
axion	AXION	Hypothetical light Higgs scalar boson
B	B	$B(5270)$ bottom meson
$B(\text{unspec})$	$B(\text{UNSPEC})$	Meson of unspecified mass with antibeauty quark
B^*	B^*	Excited bottom meson
$B^*(\text{unspec})$	$B^*(\text{UNSPEC})$	Vector beauty meson
B^{*+}	B^{*+}	
B^{*-}	B^{*-}	
\bar{B}^{*0}	B^*0	
\bar{B}^{*0}	$B^*\text{BARO}$	
B^+	B^+	$B(5270)^+$ bottom meson
B^-	B^-	$B(5270)^-$ bottom meson
B_S	B/S	Beauty-antistrange meson
\bar{B}_S	B/SBAR	Antibeauty-strange meson
B_0^0	$B0$	$B(5270)^0$ bottom meson
$b_1(1235)^+$	$B1(1235)^+$	"Buddha" meson
$b_1(1235)^-$	$B1(1235)^-$	"Buddha" meson
$b_1(1235)^0$	$B1(1235)0$	"Buddha" meson
Ba	BA	Barium nucleus
128Ba	BA128	Barium-128 nucleus
131Ba	BA131	Barium-131 nucleus
134Ba	BA134	Barium-134 nucleus
136Ba	BA136	Barium-136 nucleus
138Ba	BA138	Barium-138 nucleus
140Ba	BA140	Barium-140 nucleus
baryon	BARYON	Unspecified baryon
baryon	BARYONBAR	Unspecified antibaryon
baryonium	BARYONIUM	Unspecified nucleon-antinucleon particle
baryonium($S = +1$)	BARYONIUM($S=+1$)	Strange mesons that couple predominately to baryon-antibaryon
baryonium($S = -1$)	BARYONIUM($S=-1$)	Strange mesons that couple predominately to baryon-antibaryon
\bar{B}	BBAR	$\bar{B}(5270)$ antibottom meson
$\bar{B}(\text{unspec})$	BBAR(UNSPEC)	Meson of unspecified mass with beauty quark
\bar{B}^0	BBARO	$\bar{B}(5270)^0$ antibottom meson
Be	BE	Beryllium nucleus
10Be	BE10	Beryllium-10 nucleus
10Be _{CS}	BE10/SS	Beryllium-10 hypernucleus with strangeness=-2
11Be	BE11	Beryllium-11 nucleus
12Be	BE12	Beryllium-12 nucleus
14Be	BE14	Beryllium-14 nucleus
7Be	BE7	Beryllium-7 nucleus
8Be	BE8	Beryllium-8 nucleus
8Be*	BE8*	Excited beryllium-8 nucleus
9Be	BE9	Beryllium-9 nucleus
9Be _S	BE9/S	Beryllium-9 hypernucleus with strangeness=-1
Bi	BI	Bismuth nucleus
202Bi	BI202	Bismuth-202 radioactive isotope
203Bi	BI203	Bismuth-203 radioactive isotope
204Bi	BI204	Bismuth-204 radioactive isotope
206Bi	BI206	Bismuth-206 radioactive isotope
209Bi	BI209	Bismuth-209 nucleus
black	BLACK	Heavily ionizing track in emulsions
Bor	BOR	Boron nucleus - note name is not same as chemical symbol
10Bor	BOR10	Boron-10 nucleus - note name is not same as chemical symbol
10Bor*	BOR10*	Excited boron-10 nucleus - note name is not same as chemical symbol
11Bor	BOR11	Boron-11 nucleus - note name is not same as chemical symbol

Entries in order of the equivalent English spelling of the particle name.

† Particle not listed in 1990 Review of Particle Properties. Name may not conform to naming conventions.

<u>PARTICLENAME</u>	<u>COMPUTERNAME</u>	<u>EXPLANATION</u>
$^{11}\text{Bor}^*$	BOR11*	Excited boron-11 nucleus - note name is not same as chemical symbol
^{12}Bor	BOR12	Boron-12 nucleus - note name is not same as chemical symbol
^{13}Bor	BOR13	Boron-13 nucleus - note name is not same as chemical symbol
^{14}Bor	BOR14	Boron-14 nucleus - note name is not same as chemical symbol
^{15}Bor	BOR15	Boron-15 nucleus - note name is not same as chemical symbol
^8Bor	BOR8	Boron-8 nucleus - note name is not same as chemical symbol
^9Bor	BOR9	Boron-9 nucleus - note name is not same as chemical symbol
bottom	BOTTOM	Unspecified particle with naked bottom
bottom	BOTTOMBAR	Unspecified particle with naked antibottom
b	BQ	Bottom quark
\bar{b}	BQBAR	Antibottom quark
b'	BQPRIME	Bottom quark of fourth generation
\bar{b}'	BQPRIMEBAR	Antibottom quark of fourth generation
Br	BR	Bromine nucleus
^{75}Br	BR75	Bromine-75 radioactive isotope
^{76}Br	BR76	Bromine-76 radioactive isotope
^{77}Br	BR77	Bromine-77 radioactive isotope
^{81}Br	BR81	Bromine-81 radioactive isotope
C	C	Carbon nucleus
C(1480)	C(1480)	Meson decaying into $\phi\pi$
C(1480) ⁺	C(1480) ⁺	Meson decaying into $\phi\pi^+$
C(1480) ⁻	C(1480) ⁻	Meson decaying into $\phi\pi^-$
C(1480) ⁰	C(1480)0	Meson decaying into $\phi\pi^0$
C*	C*	Excited carbon nucleus
Cs	C/S	Carbon hypernucleus with strangeness=-1
^{10}C	C10	Carbon-10 nucleus
^{11}C	C11	Carbon-11 nucleus
^{12}C	C12	Carbon-12 nucleus
$^{12}\text{C}^*$	C12*	Excited carbon-12 nucleus
^{13}C	C13	Carbon-13 nucleus
$^{13}\text{C}^*$	C13*	Excited carbon-13 nucleus
^{14}C	C14	Carbon-14 nucleus
Ca	CA	Calcium nucleus
Ca*	CA*	Excited calcium nucleus
^{40}Ca	CA40	Calcium-40 nucleus
^{42}Ca	CA42	Calcium-42 nucleus
^{44}Ca	CA44	Calcium-44 nucleus
^{47}Ca	CA47	Calcium-47 nucleus
^{48}Ca	CA48	Calcium-48 nucleus
Cd	CD	Cadmium nucleus
^{100}Cd	CD100	Cadmium-100 nucleus
^{112}Cd	CD112	Cadmium-112 nucleus
^{113}Cd	CD113	Cadmium-113 nucleus
^{114}Cd	CD114	Cadmium-114 nucleus
^{116}Cd	CD116	Cadmium-116 nucleus
Ce	CE	Cerium nucleus
Ce*	CE*	Excited cerium nucleus
^{132}Ce	CE132	Cerium-132 radioactive isotope
^{133}Ce	CE133	Cerium-133 radioactive isotope
^{139}Ce	CE139	Cerium-139 nucleus
^{140}Ce	CE140	Cerium-140 nucleus
centauro	CENTAURO	Final state with 50 or more charged particles and no π^0 's
charged	CHARGED	Unspecified charged particle
charged ⁺	CHARGED+	Positive particle of unspecified type
charged ⁻	CHARGED-	Negative particle of unspecified type
charged-hadron	CHARGED-HADRON	Unspecified charged hadron
charged-lepton	CHARGED-LEPTON	Unspecified charged lepton
charged-meson	CHARGED-MESON	Unspecified charged meson
chargino	CHARGINO	Mixture of wino and charged higgsino
chargino ⁺	CHARGINO+	Mixture of wino and charged higgsino
chargino ⁻	CHARGINO-	Mixture of wino and charged higgsino
charm	CHARM	HPWF's Y-particle, mass 2-4 GeV, probably hadron
charm	CHARMBAR	Unspecified anticharmed particle
charm-meson	CHARMED-MESON	Unspecified charmed meson
charm-meson	CHARMED-MESONBAR	Unspecified anticharmed meson
charm-nucleus	CHARMED-NUCLEUS	Unspecified charmed nucleus
$\chi(\text{unspec})$	CHI(UNSPEC)	Unspecified radiative decay product of $\psi(2S)$
$\chi_b(\text{unspec})$	CHI/B(UNSPEC)	Bottomonium meson
$\chi_{b0}(1P)$	CHI/B0(1P)	Bottomonium meson
$\chi_{b0}(2P)$	CHI/B0(2P)	Bottomonium meson
$\chi_{b1}(1P)$	CHI/B1(1P)	Bottomonium meson
$\chi_{b1}(2P)$	CHI/B1(2P)	Bottomonium meson
$\chi_{b2}(1P)$	CHI/B2(1P)	Bottomonium meson
$\chi_{b2}(2P)$	CHI/B2(2P)	Bottomonium meson
$\chi_c(3455)\dagger$	CHI/C(3455)	Radiative decay product of $\psi(2S)$

$\chi_c(\text{unspec})$ $D_2^*(2460)^-$

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$\chi_c(\text{unspec})$	CHI/C(UNSPEC)	Unspecified radiative decay product of any ψ meson
$\chi_{c0}(1P)$	CHI/CO(1P)	Particle observed in $e^+e^- \rightarrow \mu^+\mu^-2\gamma$
$\chi_{c1}(1P)$	CHI/C1(1P)	Observed in $e^+e^-2\gamma$ final state
$\chi_{c2}(1P)$	CHI/C2(1P)	Charmonium meson
Cl	CL	Chlorine nucleus
^{34}Cl	CL34	Chlorine-34 nucleus
$^{34}\text{Cl}^*$	CL34*	Excited chlorine-34 radioactive isotope
^{35}Cl	CL35	Chlorine-35 nucleus
^{36}Cl	CL36	Chlorine-36 nucleus
^{37}Cl	CL37	Chlorine-37 nucleus
Cm	CM	Curium nucleus
Co	CO	Cobalt nucleus
^{54}Co	CO54	Cobalt-54 nucleus
^{55}Co	CO55	Cobalt-55 nucleus
^{56}Co	CO56	Cobalt-56 nucleus
^{57}Co	CO57	Cobalt-57 nucleus
^{58}Co	CO58	Cobalt-58 nucleus
^{59}Co	CO59	Cobalt-59 nucleus
^{60}Co	CO60	Cobalt-60 nucleus
^{61}Co	CO61	Cobalt-61 nucleus
^{62}Co	CO62	Cobalt-62 nucleus
c	CC	Charmed quark
\bar{c}	CCBAR	Anticharmed quark
Cr	CR	Chromium nucleus
^{48}Cr	CR48	Chromium-48 nucleus
^{50}Cr	CR50	Chromium-50 nucleus
^{51}Cr	CR51	Chromium-51 nucleus
^{133}Cs	CS133	Cesium-133 nucleus
Cu	CU	Copper nucleus
Cu^*	CU*	Excited copper nucleus
^{60}Cu	CU60	Copper-60 nucleus
^{61}Cu	CU61	Copper-61 nucleus
^{63}Cu	CU63	Copper-63 nucleus
^{64}Cu	CU64	Copper-64 nucleus
^{65}Cu	CU65	Copper-65 nucleus
$^{65}\text{Cu}^*$	CU65*	Excited copper-65 nucleus
^{67}Cu	CU67	Copper-67 nucleus
D	D	D^+ or D^0 charmed meson
D(unspec)	D(UNSPEC)	Unspecified charmed nonstrange meson
$D^*(2010)$	D*(2010)	Excited charmed nonstrange meson
$D^*(2010)^+$	D*(2010)+	Excited charmed nonstrange meson
$D^*(2010)^{\pm}$	D*(2010)+-	Excited charmed nonstrange meson
$D^*(2010)^-$	D*(2010)-	Excited charmed nonstrange meson
$D^*(2010)^0$	D*(2010)0	Excited charmed nonstrange meson
$D^*(2150)^0$	D*(2150)0	Excited charmed nonstrange meson
$D^*(2300)^0$	D*(2300)0	Excited charmed nonstrange meson
$\bar{D}^*(2010)^0$	D*BAR(2010)0	Excited anticharmed nonstrange meson
$\bar{D}^*(2150)^0$	D*BAR(2150)0	Excited anticharmed nonstrange meson
D^+	D+	$D(1869)^+$ charmed nonstrange meson
D^{\pm}	D+-	$D(1869)^+$ or $D(1869)^-$ charmed nonstrange meson
D^-	D-	$D(1869)^-$ charmed nonstrange meson
$D_S(\text{unspec})^+$	D/S(UNSPEC)+	Unspecified charmed positive strange meson
D_S^+	D/S*	Was $F^*(2140)$. Excited charmed strange meson
$D_S^+(2547)^{\dagger}$	D/S*(2547)+	
$D_S^+(2547)^{\dagger}$	D/S*(2547)-	
$D_S^+(2790)^+$	D/S*(2790)+	
D_S^{*+}	D/S**	Was $F^*(2140)$. Excited charmed strange meson
D_S^{-}	D/S*-	Was $F^*(2140)$. Excited charmed strange meson
D_S^{\pm}	D/S+	Was F . $D_S(1971)^+$ charmed strange meson
D_S^{\pm}	D/S+-	Was F . $D_S(1971)^+$ or $D_S(1971)^-$ charmed strange meson
D_S^-	D/S-	Was F . $D_S(1971)^-$ charmed strange meson
D^0	D0	$\eta(1865)^0$ charmed nonstrange meson
$D_1(2420)^+$	D1(2420)+	
$D_1(2420)^-$	D1(2420)-	
$D_1(2420)^0$	D1(2420)0	
$\bar{D}_1(2420)^0$	D1BAR(2420)0	
$D_2^+(2460)^+$	D2*(2460)+	
$D_2^+(2460)^-$	D2*(2460)-	

Entries in order of the equivalent English spelling of the particle name.

† Particle not listed in 1990 Review of Particle Properties. Name may not conform to naming conventions.

$D_2^*(2460)^0$ $f_2'(1525)$

<u>PARTICLENAME</u>	<u>COMPUTERNAME</u>	<u>EXPLANATION</u>
$D_2^*(2460)^0$	D2*(2460)0	
$\bar{D}_2^*(2460)^0$	D2*BAR(2460)0	
\bar{D}	DBAR	D^- or \bar{D}^0 charmed meson
\bar{D} (unspec)	DBAR (UNSPEC)	Unspecified anticharmed nonstrange meson
\bar{D}^0	DBAR0	$\bar{D}(1865)^0$ anticharmed nonstrange meson
D (unspec)	DC	D or \bar{D} charmed meson
DD	DD	Unspecified diffraction dissociation final state
$\Delta(1232 P_{33})$	DELTA (1232P33)	
$\Delta(1232 P_{33})^+$	DELTA (1232P33)+	
$\Delta(1232 P_{33})^{++}$	DELTA (1232P33)++	
$\Delta(1232 P_{33})^-$	DELTA (1232P33)-	
$\Delta(1232 P_{33})^0$	DELTA (1232P33)0	
$\Delta(1620 S_{31})^-$	DELTA (1620S31)-	
$\Delta(1700 D_{33})^-$	DELTA (1700D33)-	
$\Delta(1950 B)^{++\dagger}$	DELTA (1950B)++	Bump in production experiment
$\bar{\Delta}(1232 P_{33})^{--}$	DELTABAR (1232P33)--	
$\bar{\Delta}(1232 P_{33})^0$	DELTABAR (1232P33)0	
$\bar{\Delta}(1950 B)^{--\dagger}$	DELTABAR (1950B)--	Bump in production experiment
demon	DEMON	Exotic 6-quark deuteron-like state
deuteron	DEUT	Deuteron
deuteron	DEUTBAR	Antideuteron
dibaryon	DIBARYON	Dibaryon resonance
dibaryon($S = -1$)	DIBARYON(S=-1)	Unspecified $S = -1$ dibaryon resonance
dibaryon($S = -2$)	DIBARYON(S=-2)	Unspecified $S = -2$ dibaryon resonance
d	DQ	Down quark
\bar{d}	DQBAR	Antidown quark
Dy	DY	Dysprosium nucleus
^{157}Dy	DY157	Dysprosium-157 radioactive isotope
^{163}Dy	DY163	Dysprosium-163 radioactive isotope
$^{163}Dy^*$	DY163*	Excited dysprosium-163 radioact.ve isotope
e^{*+}	E*+	Excited positron
$e^{*\pm}$	E*+-	Excited positron or electron
e^{*-}	E*-	Excited electron
e^+	E+	Positron
e^\pm	E+-	Positron or electron
e^-	E-	Electron
$e\text{-color}^\pm$	E-COLOR+-	Colored electron of unspecified charge
η	ETA	$\eta(549)$ meson
$\eta(1295)$	ETA (1295)	
$\eta(1440)$	ETA (1440)	Was $\epsilon(1440)$ - glueball candidate
η_b	ETA/B	Lowest mass $J^P = 0^- b\bar{b}$ state
$\eta_c(1S)$	ETA/C(1S)	Charmonium meson
η'	ETAPRIME (958)	$\eta'(958)$ meson
Eu	EU	Europium nucleus
even-charged	EVEN-CHARGED	An even number of charged particles
exotic	EXOTIC	Unspecified particle which cannot be fit into $q\bar{q}$ or qqq model
exotic-meson	EXOTIC-MESON	Reported manifestly exotic $\bar{\Lambda}\Delta$ meson
exotic-nucleon	EXOTIC-NUCLEON	Cannot be formed of qqq
$f_0(1240)$	F0 (1240)	Was $g_S(1240)$
$f_0(1400)$	F0 (1400)	Was $\epsilon(1300)$. $\pi\pi$ S-wave (near 1300 MeV)
$f_0(1525)$	F0 (1525)	
$f_0(1590)$	F0 (1590)	
$f_0(1750)$	F0 (1750)	Was S(1730)
$f_0(700)\dagger$	F0 (700)	Was $\epsilon(700)$. $\pi\pi$ S-wave (near 700 MeV)
$f_0(975)$	F0 (975)	$I = 1$. S-wave $K\bar{K}$ enhancement
$f_1(1285)$	F1 (1285)	Was D(1285)
$f_1(1420)$	F1 (1420)	Was E(1420)
$f_1(1510)$	F1 (1510)	Was D(1530)
$f_2(1270)$	F2 (1270)	
$f_2(1720)$	F2 (1720)	Was $\theta(1690)$ - glueball candidate
$f_2(1810)$	F2 (1810)	
$f_2(2010)$	F2 (2010)	Glueball candidate
$f_2(2300)$	F2 (2300)	Was $g_T(2320)$
$f_2(2340)$	F2 (2340)	
$f_2'(1525)$	F2PRIME (1525)	

$f_4(2050)$ higgs[±]

PARTICLENAME	COMPUTERNAME	EXPLANATION
$f_4(2050)$	F4(2050)	Was $h(2030)$. $I = 0$, $J^P = 4^+$ meson resonance
$f_4(2220)$	F4(2220)	Was $\xi(2220)$. Meson seen in $J/\psi(1S)$ decays
familon	FAMILON	Massless axion-like Nambu-Goldstone boson
Fe	FE	Iron nucleus
Fe*	FE*	Excited iron nucleus
⁵² Fe	FE52	Iron-52 nucleus
⁵³ Fe	FE53	Iron-53 nucleus
⁵⁴ Fe	FE54	Iron-54 nucleus
⁵⁶ Fe	FE56	Iron-56 nucleus
⁵⁷ Fe	FE57	Iron-57 nucleus
⁵⁸ Fe	FE59	Iron-59 nucleus
⁶¹ Fe	FE61	Iron-61 nucleus
fireball	FIREBALL	
Fl	FL	Fluorine nucleus - note name is not same as chemical symbol
¹⁸ Fl	FL18	Fluorine-18 nucleus - note name is not same as chemical symbol
¹⁹ Fl	FL19	Fluorine-19 nucleus - note name is not same as chemical symbol
frag	FRAG	Nuclear fragment
fragb	FRAGB	Fragment of beam
fragt	FRAGT	Fragment of target
Ga	GA	Gallium nucleus
⁷¹ Ga	GA71	Gallium-71 nucleus
γ	GAMMA	Photon
gaugino	GAUGINO	Spin-1/2 supersymmetric partner of any gauge boson
Gd	GD	Gadolinium nucleus
¹⁴⁶ Gd	GD146	Gadolinium-146 nucleus
Ge	GE	Germanium nucleus
⁷⁰ Ge	GE70	Germanium-70 nucleus
⁷¹ Ge	GE71	Germanium-71 nucleus
⁷² Ge	GE72	Germanium-72 nucleus
⁷⁶ Ge	GE76	Germanium-76 nucleus
glueball	GLUEBALL	Unspecified glueball
gluinion	GLUINIUM	Bound state of gluinos
gluino	GLUINO	Spin-1/2 supersymmetric partner of the gluon
gluon	GLUON	
goldstino	GOLDSTINO	Supersymmetric partner of the Goldstone boson
goldstone	GOLDSTONE	Goldstone boson
gravitino	GRAVITINO	Spin-3/2 supersymmetric partner of graviton
grey	GREY	Emulsion track reported as grey (mostly protons in the range 30-400 MeV/c)
$h_1(1170)$	H1(1170)	
$h_1(1380)$	H1(1380)	
³ H _S	H3/S	Hypernucleus with Λ instead of neutron
⁴ H	H4	Hydrogen-4 nucleus
⁴ H _S	H4/S	Hypernucleus with Λ instead of neutron
⁵ H	H5	Hydrogen-5 nucleus
hadron	HADRON	Unspecified hadron
nadron(s)	HADRON(S)	One or more unspecified hadrons
hadron ⁺	HADRON+	Unspecified positive hadron
hadron ⁻	HADRON-	Unspecified negative hadron
He	HE	Helium nucleus
He*	HE*	Excited helium nucleus
³ He	HE3	Helium-3 nucleus
³ He	HE3BAR	Antihelium-3 nucleus
⁴ He	HE4	Helium-4 nucleus
⁵ He	HE5	Helium-5 nucleus
⁵ He _S	HE5/S	Helium-5 hypernucleus with strangeness=-1
⁶ He	HE6	Helium-6 nucleus
⁶ He _{SS}	HE6/SS	Helium-6 hypernucleus with strangeness=-2
⁸ He	HE8	Helium-8 nucleus
heavy-e	HEAVY-E	Unspecified heavy electron
heavy-lepton	HEAVY-LEPTON	Unspecified heavy lepton
heavy-lepton ⁺	HEAVY-LEPTON+	Unspecified positive heavy lepton
heavy-lepton [±]	HEAVY-LEPTON±	Unspecified charged heavy lepton
heavy-lepton ⁻	HEAVY-LEPTON-	Unspecified negative heavy lepton
heavy-lepton ⁰	HEAVY-LEPTON0	Unspecified neutral heavy lepton
heavy-lepton ⁰	HEAVY-LEPTONBAR0	Unspecified heavy lepton
heavy- ν	HEAVY-NU	Unspecified heavy neutrino
heavy- ν_e	HEAVY-NUE	Unspecified heavy electron neutrino
heavy- ν_μ	HEAVY-NUMU	Unspecified heavy muon neutrino
Hf	HF	Hafnium nucleus
¹⁷³ Hf	HF173	Hafnium-173 radioactive isotope
Hg	HG	Mercury nucleus
¹⁹⁶ Hg	HG196	Mercury-196 nucleus
higgs	HIGGS	Higgs boson
higgs ⁺	HIGGS+	Positive Higgs boson
higgs [±]	HIGGS±	Charged Higgs of unspecified charge

Entries in order of the equivalent English spelling of the particle name.

† Particle not listed in 1990 Review of Particle Properties. Name may not conform to naming conventions.

higgs⁻

PARTICLENAME	COMPUTERNAME	EXPLANATION
higgs ⁻	HIGGS-	Negative Higgs boson
higgsino	HIGGSINO	Spin-1/2 supersymmetric partner of any Higgs boson
Ho	HO	Holmium nucleus
¹⁶³ Ho	HO163	Holmium-163 nucleus
¹⁶⁵ Ho	HO165	Holmium-165 nucleus
htrack	HTRACK	Heavy tracks (black or grey) in emulsion
hypernucleus	HYPERNUCLEUS	Unspecified hypernucleus, generally containing more than two baryons
hyperon	HYPERON	Unspecified hyperon
hyperon	HYPERONBAR	Unspecified antihyperon
¹¹⁹ I	I119	Iodine-119 radioactive isotope
¹²⁰ I	I120	Iodine-120 radioactive isotope
¹²¹ I	I121	Iodine-121 radioactive isotope
¹²⁵ I	I125	Iodine-125 radioactive isotope
¹²⁷ I	I127	Iodine-127 radioactive isotope
In	IN	Indium nucleus
¹¹⁵ In	IN115	Indium-115 nucleus
¹¹⁶ In [*]	IN116*	Excited indium-116 radioactive isotope
inelastic	INELASTIC	Same as X, (ANYTHING), except elastic excluded
¹⁸⁶ Ir	IR186	Iridium-186 radioactive isotope
J/ψ(1S)	J/PSI(1S)	
jet	JET	One or more jets
K	K	K meson
K ⁺ (1370) ⁺	K*(1370)+	
K ⁺ (1370) ⁻	K*(1370)-	
K ⁺ (1680) ⁺	K*(1680)+	
K ⁺ (1680) ⁻	K*(1680)-	
K ⁺ (1680) ⁰	K*(1680)0	
K ⁺ (892)	K*(892)	
K ⁺ (892) ⁺	K*(892)+	
K ⁺ (892) [±]	K*(892)+-	
K ⁺ (892) ⁻	K*(892)-	
K ⁺ (892) ⁰	K*(892)0	
K ⁺ (unspec)	K*(UNSPEC)	Unspecified K ⁺
K ⁺ (unspec) ⁺	K*(UNSPEC)+	Unspecified K ⁺⁺
K ⁺ (unspec) ⁻	K*(UNSPEC)-	Unspecified K ⁺⁻
K ⁺ (unspec) ⁰	K*(UNSPEC)0	Unspecified K ⁰⁰
$\bar{K}^+(1370)^0$	K*BAR(1370)0	
$\bar{K}^+(1680)^0$	K*BAR(1680)0	
$\bar{K}^+(892)$	K*BAR(892)	
$\bar{K}^+(892)^0$	K*BAR(892)0	
$\bar{K}^+(unspec)^0$	K*BAR(UNSPEC)0	Unspecified \bar{K}^{*0}
K [±]	K±	Ordinary K [±] meson
K [±]	K+-	Ordinary K [±] or K ⁻ meson
K ⁻	K-	Ordinary K ⁻ meson
K ⁰	K0	Ordinary K ⁰ meson
K _{0}^*(1950)⁻}	K0*(1950)-	
$\bar{K}_0^*(1430)^0$	K0*BAR(1430)0	
$\bar{K}_0^*(1950)^0$	K0*BAR(1950)0	Was κ(1350). Claimed different than K ⁺ (1430)
K _{1}^*(1270)⁺}	K1(1270)+	Was Q(1280) ⁺
K _{1}^*(1270)⁻}	K1(1270)-	Was Q(1280) ⁻
K _{1}^*(1270)⁰}	K1(1270)0	Was Q(1280) ⁰
K _{1}^*(1400)⁺}	K1(1400)+	Was Q(1400) ⁺
K _{1}^*(1400)⁻}	K1(1400)-	Was Q(1400) ⁻
K _{1}^*(1400)⁰}	K1(1400)0	Was Q(1400) ⁰
$\bar{K}_1(1270)^0$	K1BAR(1270)0	Was $\bar{Q}_1(1280)^0$
$\bar{K}_1(1400)^0$	K1BAR(1400)0	Was $\bar{Q}_1(1400)^0$
K _{2}^*(1430)⁺}	K2*(1430)+	
K _{2}^*(1430)⁻}	K2*(1430)-	
K _{2}^*(1430)⁰}	K2*(1430)0	
$\bar{K}_2^*(1430)^0$	K2*BAR(1430)0	
$\bar{K}_2^*(1960)^0$	K2*BAR(1960)0	
K _{3}^*(1780)⁺}	K3*(1780)+	
K _{3}^*(1780)⁻}	K3*(1780)-	
K _{3}^*(1780)⁰}	K3*(1780)0	
$\bar{K}_3^*(1780)^0$	K3*BAR(1780)0	

$K_4^+(2045)^+$

PARTICLENAME	COMPUTERNAME	EXPLANATION
$K_4^+(2045)^+$	K4*(2045)+	
$K_4^+(2045)^-$	K4*(2045)-	
$K_4^+(2045)^0$	K4*(2045)0	
$\bar{K}_4^+(2045)^0$	K4*BAR(2045)0	
$K_5^+(2380)^0$	K5*BAR(2380)0	
kaon	KAON	Kaon or antikaon of unspecified charge
\bar{K}	KBAR	K^- or \bar{K}^0 meson
K^0	KBAR0	Ordinary K^0 meson
kink ⁺	KINK+	Positive kinking track observed in track detector
kink ⁻	KINK-	Negative kinking track observed in track detector
KK	KK	Potassium nucleus - note name is not same as chemical symbol
$KK(L=0)$	KK(L=0)	
³⁸ KK	KK38	Potassium-38 nucleus - note name is not same as chemical symbol
⁴⁰ KK	KK40	Potassium-40 nucleus - note name is not same as chemical symbol
⁴² KK	KK42	Potassium-42 nucleus - note name is not same as chemical symbol
⁴³ KK	KK43	Potassium-43 nucleus - note name is not same as chemical symbol
⁴⁷ KK	KK47	Potassium-47 nucleus - note name is not same as chemical symbol
K_L	KL	K_{long} , neutral K meson
Kr	KR	Krypton nucleus
⁷⁷ Kr	KR77	Krypton-77 radioactive isotope
⁸¹ Kr	KR81	Krypton-81 nucleus
⁸² Kr	KR82	Krypton-82 nucleus
⁸⁴ Kr	KR84	Krypton-84 nucleus
⁸⁵ Kr*	KR85*	Excited krypton-85 radioactive isotope
⁸⁸ Kr	KR88	Krypton-88 nucleus
K_S	KS	K_{short} , neutral K meson
La	LA	Lanthanum nucleus
¹³¹ La	LA131	Lanthanum-131 nucleus
¹³² La	LA132	Lanthanum-132 radioactive isotope
¹³⁹ La	LA139	Lanthanum-139 nucleus
Λ	LAMBDA	Ordinary Λ hyperon
$\Lambda(1405 S_{01})$	LAMBDA(1405S01)	
$\Lambda(1520 D_{03})$	LAMBDA(1520D03)	
$\Lambda N(2130^3 S_1)^{\dagger}$	LAMBDA-N(2130/3S1)+	$S = -1$ dibaryon resonance
Λ_c^+	LAMBDA/C+	$\Lambda_c(2281)^+ I = 0$ charmed baryon
$\bar{\Lambda}_c^-$	LAMBDA/CBAR-	$\bar{\Lambda}_c(2281) I = 0$ charmed antibaryon
$\bar{\Lambda}$	LAMBDA BAR	Ordinary $\bar{\Lambda}$ antihyperon
lepton-quark	LEPTO-QUARK	
l	LEPTON	Unspecified lepton
l^+	LEPTON+	Unspecified positive lepton
l^\pm	LEPTON+-	Unspecified charged lepton
l^-	LEPTON-	Unspecified negative lepton
lepton-colored	LEPTON-COLOR	Unspecified lepton carrying color
l^0	LEPTON0	Unspecified neutral lepton
l^0	LEPTONBAR0	Unspecified neutral antilepton
Li	LI	Lithium nucleus
Li^*	LI*	Excited lithium nucleus
¹⁰ Li	LI10	Lithium-10 nucleus
¹¹ Li	LI11	Lithium-11 nucleus
⁶ Li	LI6	Lithium-6 nucleus
⁶ Li*	LI6*	Excited lithium-6 nucleus
⁷ Li	LI7	Lithium-7 nucleus
⁷ Li _S	LI7/S	Hypernucleus with Λ instead of neutron
⁸ Li	LI8	Lithium-8 nucleus
⁹ Li	LI9	Lithium-9 nucleus
⁹ Li _S	LI9/S	Hypernucleus with Λ instead of neutron
longlived	LONGLIVED	Unspecified particle stable under strong and electromagnetic decay
Lu	LU	Lutetium nucleus
majoron	MAJORON	Hypothetical neutral, spinless, light or massless, penetrating particle. Predicted in some models in which lepton charge conservation is spontaneously broken
meson	MESON	Unspecified meson
meson ⁻	MESON-	Unspecified negative meson
meson ⁰	MESON0	Unspecified neutral meson
Mg	MG	Magnesium nucleus
²⁴ Mg	MG24	Magnesium-24 nucleus
²⁵ Mg	MG25	Magnesium-25 nucleus
²⁶ Mg	MG26	Magnesium-26 nucleus
²⁷ Mg	MG27	Magnesium-27 nucleus
²⁸ Mg	MG28	Magnesium-28 nucleus
Mn	MN	Manganese nucleus
⁵⁰ Mn	MN50	Manganese-50 nucleus
⁵² Mn	MN52	Manganese-52 nucleus
⁵⁴ Mn	MN54	Manganese-54 nucleus
⁵⁵ Mn	MN55	Manganese-55 nucleus

Entries in *italics* are the equivalent English spelling of the particle name.

[†] Particle name as in 1990 Review of Particle Properties. Name may not conform to naming conventions.

PARTICLENAME	COMPUTERNAME	EXPLANATION
⁵⁶ Mn	MN56	Manganese-56 nucleus
Mo	MO	Molybdenum nucleus
¹⁰⁰ Mo	MO100	Molybdenum-100 nucleus
⁹⁰ Mo	MO90	Molybdenum-90 radioactive isotope
⁹³ Mo*	MO90*	Excited molybdenum-90 radioactive isotope
⁹³ Mo*	MO93*	Excited molybdenum-93 radioactive isotope
⁹⁴ Mo	MO94	Molybdenum-94 nucleus
⁹⁶ Mo	MO96	Molybdenum-96 nucleus
⁹⁸ Mo	MO98	Molybdenum-98 nucleus
monopole	MONOPOLE	Magnetic monopole
μ^+	MU**+	Excited μ^+
μ^\pm	MU**+-	Excited charged muon
μ^-	MU*-	Excited μ^-
μ^+	MU+	Ordinary μ^+ lepton
μ^\pm	MU+-	Ordinary charged muon
μ^-	MU-	Ordinary μ^- lepton
<u>muonium</u>	MUEATOM	μ^+e^- atom
muonium	MUEATOMBAR	μ^-e^+ atom
mult[black]	MULT (BLACK)	Multiplicity distribution for black track
mult[charged]	MULT (CHARGED)	Multiplicity distribution for unspecified charged particle
mult[charged ⁺]	MULT (CHARGED+)	Multiplicity distribution for unspecified positive particle
mult[charged ⁻]	MULT (CHARGED-)	Multiplicity distribution for unspecified negative particle
mult[charged-hadron]	MULT (CHARGED-HADRON)	Multiplicity distribution for unspecified charged hadron
mult[charged-meson]	MULT (CHARGED-MESON)	Multiplicity distribution for unspecified charged meson
mult[deuteron]	MULT (DEUTERON)	Multiplicity distribution for deuteron
mult[e ⁺]	MULT (E+)	Multiplicity distribution for positron
mult[e ⁻]	MULT (E-)	Multiplicity distribution for electron
mult[η]	MULT (ETA)	Multiplicity distribution for η (549)
mult[frag]	MULT (FRAG)	Multiplicity distribution for nuclear fragment
mult[fragb]	MULT (FRAGB)	Multiplicity distribution for beam fragment
mult[fragt]	MULT (FRAGT)	Multiplicity distribution for target fragment
mult[γ]	MULT (GAMMA)	Multiplicity distribution for γ
mult[grey]	MULT (GREY)	Multiplicity distribution for grey track
mult[hadron]	MULT (HADRON)	Multiplicity distribution for unspecified hadron
mult[hadron ⁺]	MULT (HADRON+)	Multiplicity distribution for unspecified positive hadron
mult[hadron ⁻]	MULT (HADRON-)	Multiplicity distribution for unspecified negative hadron
mult[hadron ⁰]	MULT (HADRON0)	Multiplicity distribution for unspecified neutral hadron
mult[He]	MULT (HE)	Multiplicity distribution for helium nucleus
mult[htrack]	MULT (HTRACK)	Multiplicity distribution for heavy tracks (black or grey) in emulsion
mult[jet]	MULT (JET)	Multiplicity distribution for jet
mult[K ⁺]	MULT (K+)	Multiplicity distribution for K ⁺
mult[K [±]]	MULT (K+-)	Multiplicity distribution for K ⁺ or K ⁻
mult[K ⁻]	MULT (K-)	Multiplicity distribution for K ⁻
mult[K ⁰]	MULT (K0)	Multiplicity distribution for K ⁰
mult[kaon]	MULT (KAON)	Multiplicity distribution for kaon of unspecified charge
mult[Ks]	MULT (KS)	Multiplicity distribution for K _S
mult[Λ]	MULT (LAMBDA)	Multiplicity distribution for Λ
mult[$\bar{\Lambda}$]	MULT (LAMBDA BAR)	Multiplicity distribution for $\bar{\Lambda}$
mult[lepton]	MULT (LEPTON)	Multiplicity distribution for unspecified lepton
mult[meson]	MULT (MESON)	Multiplicity distribution for unspecified meson
mult[μ]	MULT (MUON)	Multiplicity distribution for muon of unspecified charge
mult[n]	MULT (N)	Multiplicity distribution for neutron
mult[neutral]	MULT (NEUTRAL)	Multiplicity distribution for unspecified neutral particle
mult[p]	MULT (P)	Multiplicity distribution for proton
mult[\bar{p}]	MULT (PBAR)	Multiplicity distribution for antiproton
mult[π^+]	MULT (PI+)	Multiplicity distribution for π^+
mult[π^\pm]	MULT (PI+-)	Multiplicity distribution for π^+ or π^-
mult[π^-]	MULT (PI-)	Multiplicity distribution for π^-
mult[π^0]	MULT (PIO)	Multiplicity distribution for π^0
mult[π]	MULT (PION)	Multiplicity distribution for pion of unspecified charge
mult[shower]	MULT (SHOWER)	Multiplicity distribution for shower track
mult[strange]	MULT (STRANGE)	Multiplicity distribution for unspecified strange particle
n	N	Neutron
N(1440 B) ⁺ †	N(1440B)+	Bump in production experiment

$N(1440 B)^0$

$\bar{\nu}_\mu$

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$N(1440 B)^0 \dagger$	N(1440B)0	Bump in production experiment
$N(1440 P_{11})$	N(1440P11)	
$N(1440 P_{11})^+$	N(1440P11)+	
$N(1440 P_{11})^0$	N(1440P11)0	
$N(1520 B)^+ \dagger$	N(1520B)+	Bump in production experiment
$N(1680 F_{15})^+$	N(1680F15)+	
$N(1680 F_{15})^0$	N(1680F15)0	
$N(1700 B)^+ \dagger$	N(1700B)+	Bump in production experiment
$N(2100 B)^+ \dagger$	N(2100B)+	
n(spect)	N(SPECT)	Spectator neutron
$N^*(\text{unspec})^+$	N*(UNSPEC)+	$I = \text{unspecified}, S = 0$ baryon of unspecified mass
$N_{5/2}^*(1380)^{+++ \dagger}$	N*5/2(1380)+++	Exotic baryon
$N_{5/2}^*(1390)^{+++ \dagger}$	N*5/2(1390)+++	$I = 5/2$ nonstrange baryon (exotic)
$N_{5/2}^*(1480)^{+++ \dagger}$	N*5/2(1480)+++	$I = 5/2$ nonstrange baryon (exotic)
$N_{5/2}^*(1650)^{+++ \dagger}$	N*5/2(1650)+++	$I = 5/2, S = 0$ baryon (exotic)
$N_{5/2}^*(1760)^{+++ \dagger}$	N*5/2(1760)+++	Exotic baryon
$N_{5/2}^*(2070)^{+++ \dagger}$	N*5/2(2070)+++	Exotic baryon
$N_{5/2}^*(\text{unspec})^{+++ \dagger}$	N*5/2(UNSPEC)+++	Unspecified $I = 5/2, S = 0$ baryon
Na	NA	Sodium nucleus
^{23}Na	NA23	Sodium-23 nucleus
^{24}Na	NA24	Sodium-24 nucleus
Nb	NB	Niobium nucleus
^{90}Nb	NB90	Niobium-90 nucleus
$^{92}\text{Nb}^*$	NB92*	Excited niobium-92 radioactive isotope
^{93}Nb	NB93	Niobium-93 nucleus
\bar{n}	NBAR	Antineutron
$\bar{N}N(I=0)$	NBARN(I=0)	$\bar{N}N I = 0$ initial state (and elastic final state)
$\bar{N}N(I=1)$	NBARN(I=1)	$\bar{N}N I = 1$ initial state (and elastic final state)
Nd	ND	Neodymium nucleus
^{150}Nd	ND150	Neodymium-150 nucleus
Ne	NE	Neon nucleus
^{18}Ne	NE18	Neon-18 nucleus
^{20}Ne	NE20	Neon-20 nucleus
^{22}Ne	NE22	Neon-22 nucleus
neutral	NEUTRAL	Unspecified neutral particle
neutralino	NEUTRALINO	Any supersymmetric partner of an ordinary neutral particle
Ni	NI	Nickel nucleus
^{56}Ni	NI56	Nickel-56 nucleus
^{57}Ni	NI57	Nickel-57 nucleus
^{58}Ni	NI58	Nickel-58 nucleus
^{60}Ni	NI60	Nickel-60 nucleus
^{61}Ni	NI61	Nickel-61 nucleus
^{62}Ni	NI62	Nickel-62 nucleus
^{64}Ni	NI64	Nickel-64 nucleus
^{65}Ni	NI65	Nickel-65 nucleus
^{66}Ni	NI66	Nickel-66 nucleus
Nit	NIT	Nitrogen nucleus - note name is not same as chemical symbol
Nit^*	NIT*	Excited nitrogen nucleus - note name is not same as chemical symbol
^{13}Nit	NIT13	Nitrogen-13 nucleus - note name is not same as chemical symbol
^{14}Nit	NIT14	Nitrogen-14 nucleus - note name is not same as chemical symbol
$^{14}\text{Nit}^*$	NIT14*	Excited nitrogen-14 nucleus - note name is not same as chemical symbol
^{15}Nit	NIT15	Nitrogen-15 nucleus - note name is not same as chemical symbol
^{16}Nit	NIT16	Nitrogen-16 nucleus - note name is not same as chemical symbol
$NN(2900)^1 H_e^{++ \dagger}$	NN(2900/1H6)++	Dibaryon resonance
$NN(2900)^1 H_e^0 \dagger$	NN(2900/1H6)0	Dibaryon resonance
nonres	NONRES	Unspecified nonresonant state
^{237}Np	NP237	Neptunium-237 nucleus
$^{237}\text{Np}^*$	NP237*	Excited neptunium-237 nucleus
$N\phi(1950) \dagger$	NPHI(1950)0	Reported baryon with $s\bar{s}$ and 3 other quarks
ν	NU	Unspecified neutrino or antineutrino
ν^*	NU*	Excited generic neutrino. Different with <i>heavy-lepton</i> ⁰
$\bar{\nu}^*$	NU*BAR	Excited generic anti-neutrino. Different with <i>heavy-lepton</i> ⁰
$\bar{\nu}$	NUBAR	Unspecified antineutrino
nuclearite	NUCLEARITE	Proposed new form of strange hadronic matter. Quark nuggets.
nucleon	NUCLEON	Unspecified nucleon
nucleus	NUCLEUS	Unspecified nucleus
ν_e	NUE	Electron neutrino
$\bar{\nu}_e$	NUEBAR	Antielectron neutrino
ν_μ	NUMU	Muon neutrino
$\bar{\nu}_\mu$	NUMUBAR	Anti-muon neutrino

Entries in order of the equivalent English spelling of the particle name.

† Particle not listed in 1990 Review of Particle Properties. Name may not conform to naming conventions.

<u>PARTICLENAME</u>	<u>COMPUTERNAME</u>	<u>EXPLANATION</u>
ν_τ	NUTAU	τ neutrino
$\bar{\nu}_\tau$	NUAUBAR	Anti- τ neutrino
O	O	Oxygen nucleus
O _S	O/S	Oxygen hypernucleus
¹² O	O12	Oxygen-12 nucleus
¹² O*	O12*	Excited oxygen-12 nucleus
¹⁴ O	O14	Oxygen-14 nucleus
¹⁵ O	O15	Oxygen-15 nucleus
¹⁶ O	O16	Oxygen-16 nucleus
¹⁶ O*	O16*	Excited oxygen-16 nucleus
¹⁷ O	O17	Oxygen-17 nucleus
¹⁸ O	O18	Oxygen-18 nucleus
odd-charged	ODD-CHARGED	An odd number of charged particles
$\Omega(2250)^-$	OMEGA(2250)-	
$\Omega(2470)^-$	OMEGA(2470)-	
ω	OMEGA(783)	
$\Omega^*(\text{unspec})^-$	OMEGA*(UNSPEC)-	I = unspecified, S = -3 baryon of unspecified mass
Ω^-	OMEGA-	Ordinary Ω^- hyperon
Ω_c	OMEGA/C	$\Omega_c(2740)^0$ I = 0 charmed doubly strange baryon
$\omega_3(1670)$	OMEGA3(1670)	
$\bar{\Omega}^+$	OMEGABAR+	Ordinary $\bar{\Omega}^+$ antihyperon
p	P	Proton
p(spect)	P(SPECT)	Spectator proton
p^\pm	P+-	Proton or antiproton
Pb*	PB	Lead nucleus
¹⁸⁸ Pb	PB*	Excited lead nucleus
¹⁹⁸ Pb	PB198	Lead-198 radioactive isotope
²⁰⁰ Pb	PB199	Lead-199 radioactive isotope
²⁰¹ Pb	PB200	Lead-200 radioactive isotope
²⁰² Pb	PB201	Lead-201 radioactive isotope
²⁰² Pb*	PB202	Lead-202 radioactive isotope
²⁰³ Pb	PB202*	Excited lead-202 radioactive isotope
²⁰³ Pb*	PB203	Lead-203 radioactive isotope
²⁰⁴ Pb	PB204*	Excited lead-204 radioactive isotope
²⁰⁷ Pb	PB207	Lead-207 nucleus
²⁰⁸ Pb	PB208	Lead-208 nucleus
\bar{p}	PBAR	Antiproton
$\bar{p}(\text{spect})$	PBAR(SPECT)	Spectator antiproton
Pd	PD	Palladium nucleus
¹⁰⁰ Pd	PD100	Palladium-100 radioactive isotope
P _H	PH	Phosphorus nucleus - note name is not same as chemical symbol
³⁰ P _H	PH30	Phosphorus-30 nucleus - note name is not same as chemical symbol
ϕ	PHI(1020)	
$\phi(1680)$	PHI(1680)	
$\phi_3(1850)$	PHI3(1850)	Bump in K^+K^- mass
photino	PHOTINO	Spin-1/2 supersymmetric partner of the photon
π	PI	Pion of unspecified charge
π^+	PI+	Ordinary π^+ meson
π^\pm	PI+-	Ordinary π^+ or π^- meson
π^-	PI-	Ordinary π^- meson
π^0	PIO	Ordinary π^0 meson
$\pi_2(1670)^-$	PI2(1670)-	Was A(1680) ⁻
$\pi_2(1670)^0$	PI2(1670)0	Was A(1680) ⁰
atom($\pi\mu$)	PIMUATOM	$\pi\mu$ coulomb bound state
$\pi\pi(L=0)$	PIPI(L=0)	$\pi\pi$ S-wave state
pomeron	POMERON	
positronium	POSITRONIUM	
positronium*	POSITRONIUM*	Excited positronium
Pr	PR	Praseodymium nucleus
¹³⁸ Pr*	PR138*	Excited praseodymium-138 radioactive isotope
$\psi(2S)$	PSI(2S)	
$\psi(3770)$	PSI(3770)	
$\psi(4040)$	PSI(4040)	
$\psi(4160)$	PSI(4160)	
$\psi(4415)$	PSI(4415)	
Pt	PT	Platinum nucleus
¹⁹⁶ Pt	PT196	Platinum-196 nucleus
²³⁹ Pu	PU239	Plutonium-239 nucleus
q	QUARK	Quark of charge 2/3
q*	QUARK*	Excited quark
\bar{q}	QUARK*BAR	Excited antiquark

\bar{q}

PARTICLENAME	COMPUTERNAME	EXPLANATION
\bar{q}	QUARKBAR	Antiquark of charge 2/3
Rb	RB	Rubidium nucleus
⁸¹ Rb	RB81	Rubidium-81 radioactive isotope
⁸¹ Rb*	RB81*	Excited rubidium-81 radioactive isotope
Re	RE	Rhenium nucleus
Rb	RH	Rhodium nucleus
$\rho(1450)^0$	RHO(1450)0	
$\rho(1700)$	RHO(1700)	
$\rho(1700)^0$	RHO(1700)0	
ρ	RHO(770)	
ρ^+	RHO(770)+	
ρ^-	RHO(770)-	
ρ^0	RHO(770)0	
$\rho_3(1690)^0$	RHO3(1690)0	Was $g(1690)$
Ru	RU	Ruthenium nucleus
¹⁰⁰ Ru	RU100	Ruthenium-100 nucleus
¹⁰⁰ Ru*	RU100*	Excited ruthenium-100 nucleus
¹⁰³ Ru	RU103	Ruthenium-103 radioactive isotope
S	S	Sulfur nucleus
²⁸ S	S28	Sulfur-28 nucleus
²⁸ S*	S28*	Excited sulfur-28 nucleus
³² S	S32	Sulfur-32 nucleus
³⁴ S	S34	Sulfur-34 nucleus
³⁵ S	S35	Sulfur-35 nucleus
³⁶ S	S36	Sulfur-36 nucleus
Sb	SB	Antimony nucleus
¹¹⁰ Sb	SB116	Antimony-116 nucleus
¹¹⁸ Sb	SB118	Antimony-118 nucleus
¹²⁰ Sb	SB120	Antimony-120 nucleus
¹²² Sb	SB122	Antimony-122 nucleus
¹²⁴ Sb	SB124	Antimony-124 nucleus
Sc	SC	Scandium nucleus
⁴² Sc	SC42	Scandium-42 nucleus
⁴³ Sc	SC43	Scandium-43 nucleus
⁴⁴ Sc	SC44	Scandium-44 nucleus
⁴⁵ Sc	SC45	Scandium-45 nucleus
⁴⁶ Sc	SC46	Scandium-46 nucleus
⁴⁷ Sc	SC47	Scandium-47 nucleus
⁴⁸ Sc	SC48	Scandium-48 nucleus
Se	SE	Selenium nucleus
Se*	SE*	Excited selenium nucleus
⁷³ Se	SE73	Selenium-73 radioactive isotope
⁷⁶ Se	SE76	Selenium-76 nucleus
⁸² Se	SE82	Selenium-82 nucleus
⁸⁶ Se	SE86	Selenium-86 nucleus
\bar{e}	SELECTRON	Spin-0 supersymmetric partner of the positron or electron
\bar{e}^+	SELECTRON+	Spin-0 supersymmetric partner of the positron
\bar{e}^-	SELECTRON-	Spin-0 supersymmetric partner of the electron
shower	SHOWER	Shower track
shower ⁺	SHOWER+	Positive shower track
shower ⁻	SHOWER-	Negative shower track
Si	SI	Silicon nucleus
²⁴ Si	SI24	Silicon-24 nucleus
²⁴ Si*	SI24*	Excited silicon-24 nucleus
²⁸ Si	SI28	Silicon-28 nucleus
³⁰ Si	SI30	Silicon-30 nucleus
Σ	SIGMA	Ordinary Σ hyperon
$\Sigma(1385 P_{13})^+$	SIGMA(1385P13)+	
$\Sigma(1385 P_{13})^-$	SIGMA(1385P13)-	
$\Sigma(1385 P_{13})^0$	SIGMA(1385P13)0	
$\Sigma(1660 P_{11})^+$	SIGMA(1660P11)+	
$\Sigma(3170 B)^+$	SIGMA(3170B)+	Bump in production experiment
Σ^+	SIGMA+	Ordinary Σ^+ hyperon
Σ^-	SIGMA-	Ordinary Σ^- hyperon
$\Sigma_c(2455)^+$	SIGMA/C(2455)+	$I = 1$ charmed baryon
$\Sigma_c(2455)^{++}$	SIGMA/C(2455)++	$I = 1$ charmed baryon
$\Sigma_c(2455)^0$	SIGMA/C(2455)0	$I = 1$ charmed baryon
$\Sigma_c(2510)^{++\dagger}$	SIGMA/C(2510)++	Charmed baryon
$\bar{\Sigma}_c(2455)^{--}$	SIGMA/CBAR(2455)--	$I = 1$ charmed antibaryon
$\bar{\Sigma}_c(2455)^0$	SIGMA/CBAR(2455)0	$I = 1$ charmed antibaryon
Σ^0	SIGMA0	Ordinary Σ^0 hyperon
$\Sigma(1385 P_{13})^+$	SIGMABAR(1385P13)+	

Entries in order of the equivalent English spelling of the particle name.

† Particle not listed in 1990 Review of Particle Properties. Name may not conform to naming conventions.

$\Xi(1385 P_{13})^-$

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$\Xi(1385 P_{13})^-$	SIGMABAR(1385P13)-	
$\Xi(1385 P_{13})^0$	SIGMABAR(1385P13)0	
Σ^+	SIGMABAR+	Ordinary Σ^+ antihyperon
Σ^-	SIGMABAR-	Ordinary Σ^- antihyperon
Σ^0	SIGMABARO	Ordinary Σ^0 antihyperon
$\tilde{\chi}$	SLEPTON	Spin-0 supersymmetric lepton partner
$\tilde{\chi}^+$	SLEPTON+	Positive spin-0 supersymmetric lepton partner
$\tilde{\chi}^-$	SLEPTON-	Negative spin-0 supersymmetric lepton partner
Sm	SM	Samarium nucleus
^{150}Sm	SM150	Samarium-150 nucleus
^{152}Sm	SM152	Samarium-152 nucleus
$^{152}\text{Sm}^*$	SM152*	Excited samarium-152 nucleus
μ^+	SMUON+	Spin-0 supersymmetric partner of μ^+
μ^-	SMUON-	Spin-0 supersymmetric partner of μ^-
Sn	SN	Tin nucleus
Sn^*	SN*	Excited tin nucleus
^{112}Sn	SN112	Tin-112 nucleus
^{115}Sn	SN115	Tin-115 nucleus
^{116}Sn	SN116	Tin-116 nucleus
$^{116}\text{Sn}^*$	SN116*	Excited tin-116 nucleus
^{118}Sn	SN118	Tin-118 nucleus
^{120}Sn	SN120	Tin-120 nucleus
^{122}Sn	SN122	Tin-122 nucleus
^{124}Sn	SN124	Tin-124 nucleus
$\tilde{\nu}$	SNU	Spin-0 supersymmetric partner of the neutrino
$\tilde{\nu}$	SNUBAR	Spin-0 supersymmetric partner of the antineutrino
$\tilde{\nu}_e$	SNUE	Spin-0 supersymmetric partner of the ν_e
$\tilde{\nu}_e$	SNUEBAR	Spin-0 supersymmetric partner of the $\bar{\nu}_e$
$\tilde{\nu}_\mu$	SNUMU	Spin-0 supersymmetric partner of ν_μ
$\tilde{\nu}_\mu$	SNUMUBAR	Spin-0 supersymmetric partner of the $\bar{\nu}_\mu$
sparticle	SPARTICLE	Supersymmetric partner of any ordinary particle
s	SQ	Strange quark
\bar{s}	SOBAR	Antistrange quark
q	SQUARK	Spin-0 supersymmetric quark partner
q	SQUARKBAR	Spin-0 supersymmetric antiquark partner
star	STAR	High charged multiplicity final state
τ^+	STAU+	Spin-0 supersymmetric partner of τ^+ lepton
τ^-	STAU-	Spin-0 supersymmetric partner of τ^- lepton
strange	STRANGE	Unspecified strange particle
supernucleus	SUPERNUCLEUS	Super heavy nucleus
Ta	TA	Tantalum nucleus
^{181}Ta	TA181	Tantalum-181 nucleus
tachyon ⁺	TACHYON+	
tachyon ⁻	TACHYON-	
τ^*	TAU*	Excited τ of unspecified charge
τ^{*+}	TAU**	Excited τ^+
τ^{*-}	TAU*-	Excited τ^-
τ^+	TAU+	Ordinary τ^+ lepton
τ^\pm	TAU+-	Ordinary τ lepton of unspecified charge
τ^-	TAU-	Ordinary τ^- lepton
Tb	TB	Terbium nucleus
^{149}Tb	TB149	Terbium-149 nucleus
^{159}Tb	TB159	Terbium-159 nucleus
Tc	TC	Technetium nucleus
^{93}Tc	TC93	Technetium-93 radioactive isotope
$^{93}\text{Tc}^*$	TC93*	Excited technetium-93 radioactive isotope
^{94}Tc	TC94	Technetium-94 radioactive isotope
$^{94}\text{Tc}^*$	TC94*	Excited technetium-94 radioactive isotope
^{95}Tc	TC95	Technetium-95 radioactive isotope
^{98}Tc	TC98	Technetium-98 nucleus
Te	TE	Tellurium nucleus
^{117}Te	TE117	Tellurium-117 radioactive isotope
^{124}Te	TE124	Tellurium-124 nucleus
^{125}Te	TE125	Tellurium-125 nucleus
^{128}Te	TE128	Tellurium-128 nucleus
^{130}Te	TE130	Tellurium-130 nucleus
technipion ⁺	TECHNIPION+	Positive technicolor pion
technipion ⁻	TECHNIPION-	Negative technicolor pion
Th	TH	Thorium nucleus
^{232}Th	TH232	Thorium-232 nucleus
Ti	TI	Titanium nucleus
^{40}Ti	TI40	Titanium-40 nucleus
$^{40}\text{Ti}^*$	TI40*	Excited titanium-40 nucleus
^{46}Ti	TI46	Titanium-46 nucleus
^{48}Ti	TI48	Titanium-48 nucleus
^{198}Tl	TL198	Thallium-198 radioactive isotope
$^{198}\text{Tl}^*$	TL198*	Excited thallium-198 radioactive isotope

200_{Tl} $\Xi_c(2460)^-$

PARTICLE NAME	COMPUTER NAME	EXPLANATION
²⁰⁰ Tl	TL200	Thallium-200 radioactive isotope
Tm	TM	Thulium nucleus
top	TOP	Unspecified particle with naked top
top	TOPBAR	Unspecified particle with naked antitop
toponium	TOPONIUM	Unspecified top-antitop state
t	TQ	Top quark
t̄	TQBAR	Antitop quark
tribaryon	TRIBARYON	Reported 3-baryon state
³ H	TRITIUM	Tritium nucleus
tritium	TRITIUMBAR	Antitritium nucleus
U	U	Uranium nucleus
²³³ U	U233	Uranium-233 nucleus
²³⁵ U	U235	Uranium-235 nucleus
²³⁸ U	U238	Uranium-238 nucleus
unspec	UNSPEC	Particle of unspecified type
Υ(10860)	UPSI(10860)	
Υ(11020)	UPSI(11020)	
Υ(1S)	UPSI(1S)	
Υ(2S)	UPSI(2S)	
Υ(3S)	UPSI(3S)	
Υ(4S)	UPSI(4S)	
Υ(unspec)	UPSI(UNSPEC)	Unspecified Υ particle
u	UQ	Up quark
ū	UQBAR	Antiup quark
VA	VA	Vanadium nucleus - note name is not same as chemical symbol
⁴⁶ VA	VA46	Vanadium-46 nucleus - note name is not same as chemical symbol
⁴⁸ VA	VA48	Vanadium-48 nucleus - note name is not same as chemical symbol
vee	VEE	Unspecified neutral strange particle decay
W ⁺	W+	Positive weak gauge boson
W [±]	W+-	Positive or negative weak gauge boson
W ⁻	W-	Negative weak gauge boson
wino	WINO	Spin-1/2 SUSY partner of the W [±]
wino ⁺	WINO+	Spin-1/2 supersymmetric partner of the W ⁺
wino ⁻	WINO-	Spin-1/2 supersymmetric partner of the W ⁻
W ⁺ †	WPRIME+	Additional positive W-boson
W [±] †	WPRIME+-	Additional charged W-boson
W ⁻ †	WPRIME-	Additional negative W-boson
Wt	WT	Tungsten nucleus - note name is not same as chemical symbol
¹⁸⁴ Wt	WT184	Tungsten-184 nucleus - note name is not same as chemical symbol
X	X	For use in inclusive reactions. Also for total cross-section data, as in K ⁻ p → X
X(1700)	X(1700)	
X(1935) ^{0†}	X(1935)0	Was S(1935) ⁰
X(2200)	X(2200)	
X(3100)	X(3100)	Exotic meson possibly seen in Λp̄ plus pions
X(3100) ⁺	X(3100)+	Exotic meson possibly seen in Λp̄ plus pions
X(3100) ⁻	X(3100)-	Exotic meson possibly seen in Λp̄ plus pions
X(3100) ⁻⁻	X(3100)--	Exotic meson possibly seen in Λp̄ plus pions
X(3100) ⁰	X(3100)0	Exotic meson possibly seen in Λp̄ plus pions
Xe	XE	Xenon nucleus
¹²⁴ Xe	XE124	Xenon-124 nucleus
¹²⁸ Xe	XE128	Xenon-128 nucleus
¹³⁰ Xe	XE130	Xenon-130 nucleus
¹³¹ Xe	XE131	Xenon-131 nucleus
¹³⁴ Xe	XE134	Xenon-134 nucleus
¹³⁶ Xe	XE136	Xenon-136 nucleus
Ξ	XI	Ordinary Ξ hyperon
Ξ(1530 P ₁₃) ⁻	XI(1530P13)-	
Ξ(1530 P ₁₃) ⁰	XI(1530P13)0	
Ξ(1690) ⁻	XI(1690)-	
Ξ(1820 D ₁₃) ⁻	XI(1820D13)-	
Ξ(1820 D ₁₃) ⁰	XI(1820D13)0	
Ξ(1950) ⁰	XI(1950)0	
Ξ*(unspec)	XI*(UNSPEC)	I = unspecified, S = -2 baryon of unspecified mass
Ξ ⁻	XI-	Ordinary Ξ ⁻ hyperon
Ξ _c (2460)	XI/C(2460)	Baryon with quark content usc
Ξ _c (2460) ⁺	XI/C(2460)+	Charmed strange baryon
Ξ _c (2460) ⁰	XI/C(2460)0	Charmed strange baryon
Ξ _c (2460) ⁻	XI/CBAR(2460)-	Baryon with quark content usc

Entries in order of the equivalent English spelling of the particle name.

† Particle not listed in 1990 Review of Particle Properties. Name may not conform to naming conventions.

$\Xi_c(2460)^0$

<u>PARTICLENAME</u>	<u>COMPUTERNAME</u>	<u>EXPLANATION</u>
$\Xi_c(2460)^0$	XI/CBAR(2460)0	Charmed strange antibaryon
Ξ^0	XIO	Ordinary Ξ^0 hyperon
$\Xi(1530 P_{13})^+$	XIBAR(1530P13)+	
$\Xi(1530 P_{13})^0$	XIBAR(1530P13)0	
Ξ^+	XIBAR+	Ordinary Ξ^+ antihyperon
Ξ^0	XIBARO	Ordinary Ξ^0 antihyperon
$Y^*(\text{unspec})$	Y*(UNSPEC)	$I = \text{unspecified}, S = -1$ baryon of unspecified mass
$Y^*(\text{unspec})^0$	Y*(UNSPEC)0	$I = \text{unspecified}, S = -1$ baryon of unspecified mass
Yb	YB	Ytterbium nucleus
Yt	YT	Yttrium nucleus - note name is not same as chemical symbol
^{84}Yt	YT84	Yttrium-84 radioactive isotope - note name is not same as chemical symbol
^{86}Yt	YT86	Yttrium-86 radioactive isotope - note name is not same as chemical symbol
^{87}Yt	YT87	Yttrium-87 radioactive isotope - note name is not same as chemical symbol
$^{87}\text{Yt}^*$	YT87*	Excited yttrium-87 radioactive isotope - note name is not same as chemical symbol
^{89}Yt	YT89	Yttrium-89 nucleus - note name is not same as chemical symbol
Z^0	Z	Neutral weak gauge boson
zino	ZINO	Spin-1/2 supersymmetric partner of the Z^0
Zn	ZN	Zinc nucleus
^{62}Zn	ZN62	Zinc-62 nucleus
^{63}Zn	ZN63	Zinc-63 nucleus
^{65}Zn	ZN65	Zinc-65 nucleus
^{72}Zn	ZN72	Zinc-72 nucleus
Z'	ZPRIME	Additional Z-boson
Zr	ZR	Zirconium nucleus
^{86}Zr	ZR86	Zirconium-86 radioactive isotope
^{89}Zr	ZR89	Zirconium-89 radioactive isotope
^{90}Zr	ZR90	Zirconium-90 nucleus
^{92}Zr	ZR92	Zirconium-92 nucleus
^{94}Zr	ZR94	Zirconium-94 nucleus
^{96}Zr	ZR96	Zirconium-96 nucleus

Our names for accelerators are collected below. In most cases, the name is simply an abbreviation of the name of the institution at which the accelerator is located. Where there is more than one accelerator at the same institution, an appropriate modifier is appended, as in CERN-SPS.

For a cosmic ray experiment, we use COSM as the accelerator name, sometimes combined with a specification of the source of the rays.

We use NONE for certain cases, such as proton decay experiments, in which no particle beam is used. We use MANY for certain rapporteur talks or other papers surveying a number of experiments at several (often unspecified) accelerators.

Energies listed are the approximate maximum energies of the circulating beams.

AERE-HELIOS-NS

ACCELERATOREXPLANATION

AERE-HELIOS-NS	HELIOS neutron source at Harwell
ANIK-MEA	MEA e^- linac at NIKHEF
ANL	Argonne (ZGS) proton synchrotron (12.7 GeV/c p_{lab})
BNL	Brookhaven (AGS) proton synchrotron (33 GeV/c p_{lab})
BONN	Bonn electron synchrotron (2.5 GeV/c p_{lab})
BONN-500	Bonn electron synchrotron (500 MeV/c p_{lab})
CERN-ISR	CERN proton-proton collider (62 GeV E_{cm})
CERN-LEAR	CERN low-energy antiproton ring
CERN-LEP	CERN large electron-positron collider (120 GeV E_{cm})
CERN-PBAR/P	CERN $\bar{p}p$ collider (540 GeV E_{cm})
CERN-PS	CERN proton synchrotron (28 GeV/c p_{lab})
CERN-SC	CERN synchrocyclotron (600 MeV T_{lab})
CERN-SPS	CERN super proton synchrotron (450 GeV/c p_{lab})
CESR	Cornell electron-positron storage ring (12 GeV E_{cm})
CIT-PELLETRON	California Institute of Technology 3-MeV Pelletron accelerator
COSM	Cosmic rays
COSM-CYGNUS-X-3	Local source of cosmic ray particles from direction of Cygnus X-3
COSM-HERCULES-X-1	Local source of cosmic ray particles from direction of Hercules X-1
COSM-LMC-X-4	Local source of cosmic ray particles from direction of LMC-X-4
COSM-SN1987A	Local source of cosmic ray particles from direction of SN 1987A
COSM-SUN	Local source of cosmic ray particles from direction of the Sun
DARE-NINA	Daresbury electron synchrotron (5.2 GeV/c p_{lab})
DARM-LINAC	Darmstadt 65 MeV/c p_{lab} linac
DESY	Hamburg Deutches electron synchrotron (7.5 GeV/c p_{lab})
DESY-DORIS-II	DESY DORIS upgraded in 1977 (11.2 GeV E_{cm})
DESY-PETRA	DESY electron-positron collider (40 GeV E_{cm})
DGSI	Darmstadt heavy ion facility
FNAL	FNAL proton synchrotron (500 GeV/c p_{lab})
FNAL-COLLIDER	FNAL $\bar{p}p$ collider (2000 GeV E_{cm})
FNAL-TEV	FNAL fixed target machine (1000 GeV)
FRASADONE	Frascati electron-positron ring (3 GeV E_{cm})
GANIL	Two coupled isochronous cyclotrons for heavy ions
IND-CYC	Indiana University cyclotron facility
INRU-240	Cyclotron of Institute for Nuclear Research, Academy of Science Ukr. SSR
ITEP	ITEP Moscow proton synchrotron (7 GeV/c p_{lab})
JINR	JINR Dubna proton synchrotron (10 GeV/c p_{lab})
JINR-600	JINR Dubna synchrocyclotron (600 MeV T_{lab})
KEK-PF-LINAC	KEK electron linac (2.5 GeV) for photon factory and TRISTAN
KEK-PS	KEK proton synchrotron (12 GeV p_{lab})
KEK-TRISTAN	KEK electron-positron collider (64 GeV E_{cm})
KHAR	Electron linear accelerator (2 GeV p_{lab}) at Kharkov Physico-Technical Inst., Ukr. Acad. Sci.
LAMPF	Los Alamos meson/proton factory
LASER	Laser as a source of γ 's
LBL-BEVALAC	Tandem combination of LBL-HILAC and Bevatron. Accelerates ions up to Fe (2.1 GeV/nucleon for charge/mass = 0.5, 4.9 for protons)
LBL-CYC-184IN	LBL 184-inch cyclotron (934 MeV for ^4He). Shut down in 1987
LEBD-650	Lebedev Physics Inst. synchrotron (650 MeV/c p_{lab})
LEBD-PAHRA	Lebedev Physics Inst. 1.2 GeV electron synchrotron
LENI	Leningrad Inst. of Nucl. Phys. synchrocyclotron (1 GeV T_{lab})
LVLN-CYC	Isochronous cyclotron at University of Louvain
MANY	Used (rarely) for reviews and compilations
MANZ-LINAC	Electron LINAC at Mainz (300 MeV/c p_{lab})
MIT-BLA	MIT electron LINAC (780 MeV E_{lab})
MSU-CYC	Michigan State Univ. superconducting cyclotron to 40 MeV
MUNT	Accelerator of the Munich Technical University (Munich, FRG)
NBS-LINAC	Linear 100 MeV accelerator
NONE	No accelerator used
NOVO-VEPP-2M	Electron-positron storage ring at Novosibirsk (1.4 GeV E_{cm})
NOVO-VEPP-4	Electron-positron ring at Novosibirsk, also a synchrotron radiation source (7-10.4 GeV E_{cm})
ORSA	Orsay electron linear accelerator (2 GeV/c p_{lab})
ORSA-CYC	Orsay synchrocyclotron (150 MeV/c p_{lab})
ORSA-DCI	Orsay electron-positron storage ring (3.4 GeV E_{cm})
PSI	Schweizerische Inst. für Nuklearforschung (590 MeV T_{lab})
REACTOR	General nuclear reactor
SAAC-CYC	National Accelerator Center Cyclotron, South Africa
SACL	Saclay (Saturne) proton synchrotron (3 GeV/c p_{lab})
SACL-LINAC	Saclay electron LINAC
SACL-SATURNE-II	Saclay proton, deuteron, alpha accelerator (2.55 GeV T_{lab})
SERP	IHEP Serpukhov proton synchrotron (76 GeV/c p_{lab})
SIEG-BEVALAC	Accelerator at Siegen Univ. (FRG)
SLAC	Stanford electron linear accelerator (40 GeV/c p_{lab})
SLAC-NPI	Stanford nuclear physics injector
SLAC-PEP	Stanford electron-positron ring (30 GeV E_{cm})
SLAC-SLC	Stanford linear electron-positron collider (100 GeV E_{cm})
SLAC-SPEAR	Stanford electron-positron ring (8.4 GeV E_{cm})
TMSK	Tomsk electron synchrotron (1.5 GeV/c p_{lab})
TOKY	INS Tokyo electron synchrotron (1.3 GeV/c p_{lab})
TRIUMF	Canadian TRIangle University Meson Facility (520 MeV T_{lab})
VAN-DE-GRAAFF	General Van-de-Graaff accelerator
YERE-ARUS	Yerevan (ARUS) electron synchrotron (6.1 GeV/c p_{lab})

Here we list detectors and the laboratories at which they are used. The Particle Data Group publication, G. Gidal *et al.*, "Major Detectors in Elementary Particle Physics," LBL-91 Supplement (1985), contains a description and a diagram of about 50 of the largest detectors.

Bubble chamber detector names indicate the fill [we distinguish hydrogen (HBC), deuterium (DBC), helium (HEBC), and heavy liquids (HLBC)], then the chamber name (which is usually simply its size), and finally any qualifiers. The qualifiers are HYB for a predominantly hybrid mode of operation, RAP for a rapid-cycling chamber, and TST for a chamber containing a track-sensitive target. When more than one qualifier is appropriate, we use the one most important to the data at hand.

2-GAMMA

DETECTOR	ACCELERATOR	EXPLANATION
2-GAMMA	SLAC-PEP	System of forward detectors for studying mainly the 2- γ process
2BETA-GS	UNDERGROUND	Underground experiment on double β decay at the Gran Sasso National Laboratory, L'Aquila, Italy
ACCMOR	CERN-SPS	Large aperture forward magnetic spectrometer
AFS	CERN-ISR	Axial field spectrometer
AHEAD	MIT-BLA	Alberta high efficiency analyzer for deuterons
ALEPH	CERN-LEP	LEP detector
ALPHA-POLIS	JINR	
AMY	KEK-TRISTAN	High resolution lepton detector
ARGUS	DESY-DORIS	
ASP	SLAC-PEP	Anomalous single photon detector
ASTERIX	CERN-PS	Antiproton stop experiment with trigger on initial x rays
BAKSAN	UNDERGROUND	
BAS	ITEP	Spectrometer without magnetic field
BBR	COSM	Cosmic-ray facility at the Black Birch Range in New Zealand
BIS	SERP	JINR spectrometer, now at IHEP, Serpukhov
BIS-2	SERP	Upgrade of BIS
BIS-2M	SERP	Modification of BIS-2
CALLIOPE	CERN-LEAR	Magnetic spectrometer at LEAR
CALO	many	Calorimeter
CASCADE	SERP	Single crystal target, goniometer, magnetic spectrometer
CCM	FNAL-TEV	Chicago cyclotron magnet spectrometer
CDF	FNAL-COLLIDER	Collider detector at Fermilab
CDHS	CERN-SPS	CERN-Dortmund-Heidelberg-Saclay-Bologna neutrino detector at SPS (135 tons)
CELLO	DESY-PETRA	
CERN-MUNICH	CERN-PS	CERN-Max Planck I (Munich) spectrometer
CHARM	CERN-SPS	CERN-Hamburg-Amsterdam-Rome-Moscow neutrino detector
CLEO	CESR	Solenoidal magnetic spectrometer
CLOUD	many	Cloud chamber
CMD	NOVO-VEPP-2M	
CNTR	many	Counters (no chambers)
COMB	many	Combinations of different types of detectors. Can include a hybrid system involving a bubble chamber, if the bubble chamber is a minor part of the system
COVER	COSM	Shower detector at Baksan
CRYS-BALL	SLAC-SPEAR	Crystal ball
CRYS-BOX	LAMPF	Crystal array detector
CUSB	CESR	High resolution calorimeter
CUSB-II	CESR	Upgraded CUSB detector
CYCLOPS	FNAL	
CYGNUS	COSM	An air-shower array located around the end station of the LAMPF accelerator in Los Alamos. Uses the LAMPF-225 neutrino detector as a muon detector, with an effective area for muon detection of about 44 m ² .
DAS	many	Double arm spectrometer
DBC-12FT	ANL	Deuterium bubble chamber
DBC-15FT	FNAL	Deuterium bubble chamber
DBC-2M	ITEP,CERN-PS	Deuterium bubble chamber
DBC-30IN	ANL,BNL,FNAL,LBL	Deuterium bubble chamber
DBC-30IN-HYB	FNAL	Deuterium bubble chamber
DBC-35CM	SACL	Deuterium bubble chamber
DBC-40IN-HYB	SLAC	Deuterium bubble chamber
DBC-7FT	BNL	Deuterium bubble chamber
DBC-80IN	BNL	Deuterium bubble chamber
DBC-BEBC	CERN-PS	Deuterium bubble chamber
DEIS	COSM	Cosmic ray muon spectrometer
DELCO	SLAC-PEP	
DEL0S	PSI	
DELPHI	CERN-LEP	LEP detector
DEUTRON-2	YERE	Modification of DEUTRON detector
DI0GENE	SACL-SATURNE-II	Pictorial drift chamber
DISC	JINR	
DISC-3	JINR	Double-arm magnetic spectrometer
DLS	LBL-BEVALAC	Double arm spectrometer
DM1	ORSA-DCI	Magnetic detector at Orsay
DM2	ORSA-DCI	Detecteur magnetique no. 2
EAS-TOP	COSM	Extended air shower detector on top of the Gran Sasso Mt., at the Gran Sasso National Laboratory, L'Aquila, Italy
EHS	CERN-SPS	European hybrid spectrometer
ELSSY	MIT-BLA	Electron spectrometer system
EMC	CERN-SPS	European muon collaboration
EMS	ANL	Effective mass spectrometer
EMUL	many	Emulsion. Also used for detectors like PLASTIC where tracks are "frozen" in a solid medium
EPICS	LAMPF	Energetic pion spectrometer and detection system
EPOS	DARM-LINAC	Electron-positron solenoid spectrometer
FANCY	KEK-PS	Forward and cylindrical detector system, large acceptance spectrometer covering both projectile and target regions
FAS-1	ITEP	
FLYSEYE	COSM	FLY'S EYE cosmic ray detector
FMPS	FNAL	Multiparticle spectrometer at Fermilab
F0DS	SERP	Double-arm spectrometer
FREJUS	UNDERGROUND	Proton decay experiment, tracking calorimeter in the Alps

DETECTOR	ACCELERATOR	EXPLANATION
GAMS-2000	SERP	Hodoscope gamma-spectrometer
GAMS-4000	CERN-SPS	Hodoscope gamma-spectrometer
GIBS	JINR	Combination of scintillator counters and streamer chamber
HBC-1.2M	CERN-PS,KEK,JINR	Hydrogen bubble chamber
HBC-25CM	JINR,ITEP,JINR	Hydrogen bubble chamber
HBC-2M	ITEP,CERN-PS	Hydrogen bubble chamber
HBC-30IN	ANL,BNL,FNAL,LBL	Hydrogen bubble chamber
HBC-30IN-HYB	FNAL	Hydrogen bubble chamber
HBC-40IN-HYB	RHEL,SLAC	Hydrogen bubble chamber
HBC-90CM	ITEP,DESY,CERN-PS	Hydrogen bubble chamber
HBC-81CM	SACL	Hydrogen bubble chamber
HBC-BEBC	CERN-PS	
HBC-BEBC-HYB	CERN-PS	
HBC-LEBC-HYB	CERN-SPS	Little European bubble chamber with hybrid system
HBC-LEBC-RAP	CERN-SPS	Little European Bubble Chamber made of lexan
HBC-LUDMILA	SERP	Also known as DUBNA chamber, but at Serpukhov
HBC-LUDMILA-TST	SERP	Also known as DUBNA chamber, but at Serpukhov
HBC-MIRA	SERP	4.5m x 1.6m x 1.1m cold chamber
HEBC-50CM	ANL,ANL	Northwestern 50-cm helium bubble chamber at ANL
HEBC-90CM	ITEP	
HELIOS	CERN-SPS	
HLBC-105CM	ITEP	Heavy-liquid bubble chamber
HLBC-15FT	FNAL	Heavy-liquid bubble chamber
HLBC-15FT-HYB	FNAL	Heavy-liquid bubble chamber
HLBC-180LIT	ITEP	Heavy-liquid bubble chamber
HLBC-1.2M	CERN-PS,JINR	Heavy-liquid bubble chamber
HLBC-2M	SERP,JINR	180-liter propane chamber
HLBC-30IN	FNAL	Heavy-liquid bubble chamber
HLBC-55CM	JINR	Propane or xenon chamber
HLBC-BEBC	CERN-PS	Heavy-liquid bubble chamber
HLBC-BEBC-HYB	CERN-PS	Heavy-liquid bubble chamber
HLBC-DIANA	ITEP	Heavy-liquid bubble chamber
HLBC-HOBC-HYB	CERN-SPS	Heavy-liquid bubble chamber
HLBC-SKAT	SERP	4.5m x 1.6m warm chambers
HPW	BNL	Harvard-Penn-Wisconsin neutrino detector at BNL
HRS	SLAC-PEP	High resolution spectrometer
HRSF	LAMPF	High resolution spectrometer facility
HYPERON	SERP	Single arm magnetic spectrometer with big spark and proportional chambers and gas hodoscope counter
IKAR	SACL-SATURNE-II	Many electrodes ionization chamber
IMB	UNDERGROUND	Irvine-Michigan-Brookhaven nucleon decay detector, Ohio
ISTRA	SERP	
ISTRA-3	ITEP	
JADE	DESY-PETRA	
JANUS	LAMPF	Proton polarimeter
JETSET	CERN-LEAR	compact general purpose detector
KAMIOKANDE-I	UNDERGROUND	Kamioka nucleon decay detector
KAMIOKANDE-II	UNDERGROUND	Kamioka nucleon decay detector, stage-2
KASPI	JINR	Channel and π -meson spectrometer with final particle energy up to 1 GeV
KGF	UNDERGROUND	
L3	CERN-LEP	LEP detector
LAB-E	FNAL	1100-ton target-calorimeter muon-spectrometer detector for neutrino physics
LAHRS	LAMPF	High resolution proton spectrometer
LAS	LAMPF	
LASS	SLAC	Large aperture solenoid spectrometer
LEPTON-F	SERP	
LSD	UNDERGROUND	
MAC	SLAC-PEP	Magnetic calorimeter
MACRO	UNDERGROUND	Large area detector
MANY	many	Many different detectors
MARK-II	SLAC-SPEAR	
MARK-III	SLAC-SPEAR	SLAC-SPEAR spectrometer system (not related to MARK-II)
MARK-J	DESY-PETRA	
MASPIC	JINR	
MD-1	NOVO-VEPP-4	
MEGA	LAMPF	Array of electron and photon spectrometers
MIS	SERP	Multiparticle spectrometer
MMS	FNAL	Multimuon spectrometer with hadron calorimeter
MPS	BNL	Multiparticle spectrometer
MPS-II	BNL	Updated BNL MPS
MRS	TRUMF	Medium resolution spectrometer
MTS	ITEP	3-m magnetic spectrometer with spark chambers
ND	VEPP-2M	Neutral detector at VEPP-2M
NICE	SERP	Nonmagnetic precision spectrometer at Serpukhov
NUSEX	UNDERGROUND	NUSEX nucleon decay detector, Mont Blanc tunnel
OLYA	NOVO-VEPP-4	
OMEGA	CERN-SPS	
OMEGA PRIME	CERN-SPS	
OMICRON	CERN-SC	
OPAL	CERN-LEP	LEP detector

DETECTOR	ACCELERATOR	EXPLANATION
ORANGE	DARM-LINAC	Beta spectrometer
OSPK	many	Optical spark chamber
OTHER	many	Rare nonelectronic detectors (e.g. moon, ocean floor)
PHOTON	many	Photon spectrometer
PI0SPEC	LAMPF	Los Alamos π^0 spectrometer
PION	COSM	Hadronic calorimeter with pion-proton identification
PLASTIC	many	Lexan or other such material in which tracks are frozen (except emulsion)
PLASTIC-BALL	LBL-BEVALAC	Plastic ball detector
PLUTO	DESY-DORIS	Superconducting solenoid spectrometer
PROZA	SERP	Polarized proton target with frozen polarization, gamma spectrometer, neutron detector
PROZA-M	SERP	Modified PROZA
RISK	SERP	4.7 x 0.9 x 0.8 m ³ streamer chamber in magnetic field
RMS	RHEL	Magnetic spectrometer facility
RONS	REACTOR	Rovno neutrino spectrometer at Rovno AES
SAC-600	SACL-LINAC	High resolution electron scattering detector
SAC-900	SACLAY-LINAC	High resolution electron scattering detector
SAS	many	Single arm spectrometer
SEMI	many	Semiconductor detector
SFM	CERN-PS	Split field magnet
SHIP	KEK-TRISTAN	Detector for search for highly ionizing particles
SIGMA	SERP	CERN-IHEP magnetic spectrometer at Serpukhov
SINDRUM	PSI	Large-solid-angle magnetic detector
SINDRUM-I	PSI	
SKM-200	JINR	2-m neon filled streamer chamber
SLAC-8GEV	SLAC	8-GeV spectrometer
SMM-GRS	COSM	Gamma ray spectrometer of the solar maximum mission satellite facility
SOKOL	COSM	
SOUDAN-I	UNDERGROUND	
SOUDAN-II	UNDERGROUND	
SFASE	COSM	South Pole air shower experiment
SPEC	many	General spectrometer system not filling one of the others or where specific type not given
SPEC-6M	SERP	6-m spectrometer
SPES-I	SACL-SATURNE-II	High resolution spectrometer
SPES-II	CERN-LEAR	High resolution spectrometer
SPES-III	SLAC-SATURNE-II	Saclay Saturne spectrometer
SPES-IV	SACL-SATURNE-II	High resolution spectrometer
SPIN	ITEP	
SPRK	many	Spark chamber of unspecified type (use WIRE or OSPK, if possible)
STRC	many	Streamer chamber
SUPERBENKEI	KEK	Superconducting spectrometer system
SUSJ	PSI	Pion spectrometer
SYSTEMA-I	COSM	Scintillator-ionization spectrometer of two electrons with multidimensional analysis
SYSTEMA-II	COSM	
TAGX	TOKY	Large-aperture spectrometer system
TASSO	DESY-PETRA	
TELAS	KEK	KEK target-embodied large-aperture spectrometer
TISS-3	ITEP	
TOPAZ	KEK-TRISTAN	Solenoidal spectrometer with time projection chamber
TPC	SLAC-PEP	Time projection chamber
TPS	FNAL	Tagged photon spectrometer
TRAD	many	A general transition radiation detector
TREAD	FNAL	Recoil energy and angle detector with mini-time projection chamber
TRIUMF-TPC	TRIUMF	Time projection chamber
UA1	CERN-PBAR/P	
UA2	CERN-PBAR/P	
UA4	CERN-PBAR/P	
UA5	CERN-PBAR/P	
UCI-TPC	NONE	
VENUS	KEK-TRISTAN	Versatile economical and novel universal spectrometer
WAS	many	Wide angle spectrometer
WIRE	many	Wire chambers (proportional wire chambers, drift chambers). Includes all nonoptical spark chambers

The symbols used to indicate what quantities are measured in an experiment are listed here. They are used in the Reaction/Momentum/Data Descriptor Index.

DATA DESCRIPTOR	EXPLANATION
A-DEP	Atomic number dependence
AMP	Amplitudes not decomposed into states of definite angular momentum: Re/Im ratio, helicity amplitude, etc.
ANG	Angular distributions between particles in the final state. Includes also angular distributions involving decay products of particles listed in the reaction, even though those decay products are not themselves explicitly listed. Includes angles used to study the decay of a system in the final state, even though the coordinate system axes may be defined with respect to the incident particles (e.g., Jackson angles, etc.). Also the equivalent, expressed as moments, etc.
ANGP	Production angular distributions of one or more of the outgoing particles relative to one of the incident particles. Also the equivalent, expressed as moments* or polynomial expansion coefficients. Also invariant cross sections as a function of production angle or t . By convention, does not include rapidity or its approximation (see P)
ASYM	Asymmetry in scattering off a polarized target and/or with a polarized beam (with exception of special case noted under POL)
COL	Collective variables (sphericity, thrust, etc.)
CONST	Physical constant (Fermi constant, Weinberg angle, etc.). Used to express that model parameters are extracted from data
COR	General correlator (on momentum, rapidity, etc.)
CS	Cross section, cross section ratio, or cross section upper limit. Can also be listed for very rare reactions whose existence is being established, even though the number of events has not been converted to a cross section. Does not include parametrizations of the cross section, e.g. as a function of energy
DME	Density matrix elements, including joint density matrix elements
ET	Transverse energy
FLUX	Cosmic-ray particle flux
MANY	For rare cases when there are many types of data measured
MASS	Mass spectrum, or invariant cross section as a function of mass
MULT	Multiplicity distribution, its average, ratio or moments
P	Any function of outgoing momentum or energy not included in any others. Includes rapidity and Feynman scaling variables
POL	Final state spin polarization measurement, including Wolfenstein spin rotation parameters, and measurements of the asymmetry off a polarized target when it is equal to the final state polarization
PT	Transverse momentum spectrum, or invariant cross section as a function of above. Does not include a momentum transfer spectrum (see ANGP). Includes transverse mass, unless the particle mass is also variable
PWA	Partial wave amplitudes, including formation partial waves and production partial waves. Any attempt to measure amplitudes of definite angular momentum. Includes scattering length and effective range
QNC	Test of quantum-number conservation