

The usages of JOIN2 authority records



Robert Thiele, Katrin Große
INVENIO User Group Workshop 2017
Garching, 22/03/2017

<https://bib-pubdb1.desy.de/record/318763>

The Join² project: partners

Powered by **INVENIO** developed at CERN



Statistic keys in MARC21

Information Usage statistics Files

Nuclear instruments & methods in physics research / A

Common abbreviations:
 Nucl. Instrum. & Methods Phys. Res. Sect. A (ZDB)
 Nucl. Instrum. Meth. A (PJA)
 Nucl. Instrum. Methods Phys. Res. A (ao)
 Nucl. Instrum. Methods Phys. Res. A (dnlm)
 Nucl. Instrum. Methods Phys. Res. A (jao)

Type: journal
 DDC: 530
 Keywords(s): *Hochenergiephysik, Atomic, Molecular, Nuclear, Particle And Plasma Physics*
 CODEN: NIMMRD
 ISSN(s): 0168-9002; 1872-9576
 Publisher: North-Holland Publ. Co. : Amsterdam
 Appears: print, online
 ID: PERI:(DE-600)1466532-3

Vol.: Iss.: Year: Page: [UNIKARIES](#)

Current Articles / Preprints

JCR

Database coverage:
[PubMed.gov](#) ; Current Contents - Engineering, Computing and Technology ; Current Contents - Physical, Chemical and Earth Sciences ;
 IF < 5 ; JCR ; NCBI Molecular Biology Database ; Nationallizenz [DFG](#) gefördert von der [DFG](#) ; SCOPUS ; Science Citation Index ; Science Citation Index Expanded ; Thomson Reuters Master Journal List ; Web of Science Core Collection

RECENT PUBLICATIONS

All known publications
 Download: BibTeX | EndNote XML, Text | RIS |

Journal Article
 Tanikawa, T. ; Hage, A. ; Kuhlmann, M. ; Gonschior, J. ; Grunewald, S. ; Pflöjges, E. ; Düstener, S. ; Brenner, G. ; Dziarzhyski, S. ; Braune, M. ; Brachmann, M. ; Yin, Z. ; Siewert, F. ; Dzelzalinis, T. ; Dromy, B. ; Prandolini, M. J. ; Travella, F. ; Zepf, M. ; Faust, B.
 First observation of SASE radiation using the compact wide-spectral-range XUV spectrometer at FLASH2
 Nuclear instruments & methods in physics research / A 830, 170 - 175 (2016) [10.1016/j.nima.2016.05.068] [UNIKARIES](#)

Journal Article
 Hempel, M. ; Afanaciev, K. ; Burtowy, P. ; Dabrowski, A. ; Henschel, H. ; Idzik, M. ; Karacheban, O. ; Lange, W. ; Leonard, J. ; Levy, I. ; Lohmann, W. ; Pollak, B. ; Przyborowski, D. ; Ryjov, V. ; Schuwalow, S. ; Stickland, D. ; Walsh, R. ; Zagodzinska, A.
 Measurements of the performance of a beam condition monitor prototype in a 5 GeV electron beam
 Nuclear instruments & methods in physics research / A 826, 65 - 71 (2016) [10.1016/j.nima.2016.04.038] [UNIKARIES](#)

- Typical authority record as example of our periodicals
- Based on German periodical database (DNB) of national library
- We use identifiers: further content is searchable, e.g. recent publications
- Enriched with statistically information's, like “listed by SCOPUS“, etc.
- Base for search, e.g. statistic keys per year, per POF, per grants, etc.

```

000008325 915_ $$0StatID:(DE-HGF)0420$$2StatID$$aNationallizenz
000008325 915_ $$0StatID:(DE-HGF)0100$$2StatID$$aJCR$$bNUCL INSTRUM METH A : 2014
000008325 915_ $$0StatID:(DE-HGF)0200$$2StatID$$aDBCoverage$$bSCOPUS
000008325 915_ $$0StatID:(DE-HGF)0300$$2StatID$$aDBCoverage$$bMedline
000008325 915_ $$0StatID:(DE-HGF)0310$$2StatID$$aDBCoverage$$bNCBI Molecular Biology Database
000008325 915_ $$0StatID:(DE-HGF)0199$$2StatID$$aDBCoverage$$bThomson Reuters Master Journal List
000008325 915_ $$0StatID:(DE-HGF)0110$$2StatID$$aWoS$$bScience Citation Index
000008325 915_ $$0StatID:(DE-HGF)0150$$2StatID$$aDBCoverage$$bWeb of Science Core Collection
000008325 915_ $$0StatID:(DE-HGF)0111$$2StatID$$aWoS$$bScience Citation Index Expanded
000008325 915_ $$0StatID:(DE-HGF)1150$$2StatID$$aDBCoverage$$bCurrent Contents - Physical, Chemical and Earth Sciences
000008325 915_ $$0StatID:(DE-HGF)1160$$2StatID$$aDBCoverage$$bCurrent Contents - Engineering, Computing and Technology
  
```

Websites: Using of authority records and gsblist

CMI HOME TEAM RESEARCH PUBLICATIONS NEWS & EVENTS CAREERS

Home → Publications → Scientific publications

SCIENTIFIC ARTICLES, BOOKS, AND CHAPTERS

Scientific publications of the CMI group

All literature references are specified according to the standards of the German Union Catalogue of Serials. All titles link to the [DESY publication database](#), containing links to preprints, e.g., arXiv.

2017 2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002
2001 2000 1999 1998

2017



Schmiedt, H.; Schlemmer, S.; Yurchenko, S. N.; Yachmenev, A.; Jensen, P. (Corresponding author)
A semi-classical approach to the calculation of highly excited rotational energies for asymmetric-top molecules
Physical chemistry, chemical physics 19(3), 1847 - 1856 (2017) [10.1039/C6CP05589C]

[LIBRARIES PDF >>](#)

[OPEN ACCESS](#) [Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

2016



Klein, L. B.; Morsing, T. J.; Livingstone, R.; Townsend, D.; Sølling, T. I. (Corresponding author)
The effects of symmetry and rigidity on non-adiabatic dynamics in tertiary amines: a time-resolved photoelectron velocity-map imaging study of the cage-amine ABCO
Physical chemistry, chemical physics 18(14), 9715 - 9723 (2016) [10.1039/C5CP07910A]

[LIBRARIES PDF >>](#)

[OPEN ACCESS](#) [Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

Ilchen, M.; Mazza, T.; Karamatskos, E. T. (Corresponding author); Markellos, D.; Bakhtiarzadeh, S.; Rafipoor, A. J.; Kelly, T. J.; Walsh, N.; Costello, J. T.; O'Keeffe, P.; Gerken, N.; Martins, M.; Lambropoulos, P.; Meyer, M.

Two-electron processes in multiple ionization under strong soft-x-ray radiation
Physical review / A covering atomic, molecular, and optical physics and quantum information 94(1), 013413 (2016) [10.1103/PhysRevA.94.013413] [LIBRARIES PDF >>](#)

[OPEN ACCESS](#) [Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

Kirian, R. A.; Awel, S.; Wiedorn, M.; Horke, D.; Roth, N.; Eckerskorn, N. O.; Küpper, J.; Chapman, H. N.; Rode, A. V.

Development of a photophoretic optical guide for femtosecond x-ray diffractive imaging of aerosolized nanoparticles (Conference Presentation)

[CFEL Home](#)



NEXT SEMINARS

There are no seminars scheduled for the coming days.

RECENT HIGHLIGHTS

CMI @ Science on Tap - Wissen vom Fass

17 November 2016

[Read more →](#)

Watching chemical reactions at work: Helmholtz cooperation lays foundations for the detailed observation of chemical processes using a tabletop laser and special-purpose detector
16 November 2016

[Read more →](#)

RECENT PUBLICATIONS

A semi-classical approach to the calculation of highly excited rotational energies for asymmetric-top molecules
Physical chemistry, chemical physics 19(3), 1847 - 1856 (2017)

[OPEN ACCESS](#) [Files](#)

[BioTeX](#) | [EndNote: XML, Text](#) | [RIS](#)

The effects of

Output format gsblist:

- Join² output format: only one format for all instances
- Using of authority records
- High Google ranking via hyperlink
- CSS compatible standard for all users
- Open Access labeling
- Using of cover images

HGFStatistics2: The Statistics tool of Join²

HGFStatistics for 2016 with at least one DESY author in POF 3

41574 records in collection "VDB"
2891 records relevant for "WEB 2016"

[Export on](#) [Export off](#)

Per statistics key

919	records	ISI + Scopus (POF3)	(POF3)
941	records	WOS listed journal OR entry (POF2)	(WOS_UT)
954	records	All of WoS and Scopus listed	(All_WOS_Scopus)
894	records	Scopus listed	(Scopus)
886	records	Thomson Reuters Master Journal List	(TRMJL)
860	records	JCR listed	(JCR)
19	records	WOS and not JCR	(WOSnonJCR)
879	records	Web of Science	(WOS)
338	records	Other refereed	(OtherRef)
3	records	Refereed NOT in WoS	(OtherNonWoS)
9	records	Refereed but NOT in WOS or Scopus	(OtherNonPOF3)
955	records	All refereed	(Ref_all)
744	records	Pubmed listed	(Medline)
289	records	DOAJ listed	(DOAJ)

Per document type

2	of type	Abstract
43	of type	Dissertation / PhD Thesis
233	of type	Internal Report
1008	of type	Journal Article
21	of type	Lecture
4	of type	Master Thesis
7	of type	Bachelor Thesis
1	of type	Patent
53	of type	Poster
379	of type	Preprint

Overview of the institution

- Per statistics key
- Per publication type
- Coverage via „web“ year (wissenschaftlicher Ergebnisbericht) for reporting
- All numbers are hyperlinks: queries against the database

919	records	ISI + Scopus (POF3)	(POF3)	EndNote Text EndNote XML RIS BibTeX
941	records	WOS listed journal OR entry (POF2)	(WOS_UT)	EndNote Text EndNote XML RIS BibTeX
954	records	All of WoS and Scopus listed	(All_WOS_Scopus)	EndNote Text EndNote XML RIS BibTeX
894	records	Scopus listed	(Scopus)	EndNote Text EndNote XML RIS BibTeX

- View and selection of current output formats, like EndNote, BibTeX, RIS

HGFStatistics2: Full statistics

Per program and statistics key

Show 10 entries

Search:

	ISI + Scopus (POF3)	WOS listed journal OR entry (POF2)	All of WoS and Scopus listed	Scopus listed	Thomson Reuters Master Journal List	JCR listed	WOS and not JCR	Web of Science	Other refereed	Refereed NOT in WoS	Refereed but NOT in WOS or Scopus	All refereed	Pubmed listed	DOAJ listed
610 - Materie und Universium (POF III: 2015 - 2019)	534	543	548	519	520	506	13	519	182	1	1	549	371	209
620 - Von Materie zu Materialien und Leben (POF III: ...)	322	335	342	313	304	293	6	299	132	2	8	342	320	66
630 - Materie und Technologie (POF III: 2015 - 2019)	72	72	73	71	70	69	0	69	30	0	0	73	61	16
890 - ohne Programm (POF III: 2014 - 2019)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Showing 1 to 4 of 4 entries

Previous **1** Next

Overview of POF programs, groups, grants, experiments or conferences:

- Per statistic keys or publication types
- Different coverages and full searchable and customizable

Short Summary



- Retrospective statistics possible, e.g. transition POF2 -> POF3 period
- High quality in meta data via DOI import
- Complex searches: easy to use
- Evaluation also for groups, grants, experiments or conferences possible

- Statistics for Open Access planned
- The POF4 period is coming!

<https://bib-pubdb1.desy.de/record/318763>



Part 2 : JOIN2 authority records for external reporting also?

OpenAIRE publications – done

Kerndatensatzforschung ?

„Kerndatensatz Forschung“ for research information & reporting

Starting at January 1st 2016 the Kerndatensatz Forschung was introduced for the standardisation in the field of research information in Germany on a voluntary base:

<http://www.kerndatensatz-forschung.de/>

with objects: Person, grant, Phd program, patent, publication, research infrastructure

„Kerndatensatz Forschung“ for research information & reporting

http://www.kerndatensatz-forschung.de/version1/technisches_datenmodell/xsd/kdsf-basis.xsd

```
- <xs:complexType name="GemeinsameBerufung__Type">
  - <xs:sequence>
    <xs:element name="NameDerWeiterenEinrichtung" type="xs:string" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
- <xs:complexType name="Drittmittelprojekt__Type">
  - <xs:complexContent>
    - <xs:extension base="cf:cfProj__Type">
      - <xs:sequence>
        <xs:element ref="kdsf-basis:FachId" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element ref="kdsf-basis:ForschungsfeldId" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element ref="kdsf-basis:cfOrgUnitId" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element ref="kdsf-basis:MittelgeberId" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="Drittmittelleinnahmen" type="kdsf-basis:Betrag__Type" minOccurs="0"/>
        <xs:element name="Drittmittelertraege" type="kdsf-basis:Betrag__Type" minOccurs="0"/>
        <xs:element name="Koordinationsrolle" type="xs:boolean" minOccurs="0"/>
        <xs:element name="KoordinatorEinrichtung" type="xs:string" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

oriented on the Common European Research Information
Format – CERIF : <http://eurocris.org/cerif/main-features-cerif>

Can we deliver to a current research information system in our organizations?

As small units we cannot extend our systems to a full CRIS or organize change processes to adapt organizational structures to reporting structures belong to the Kerndatensatz Forschung.

Can we deliver to object fields like publication or patent with our existing JOIN2 instances within our own organizations?

Can we deliver to a current research information system in our organizations?

We have

- about 134000 authority records for personnel, grants, research infrastructure, departments, e-journals (part 1)
- => so we can build the necessary KDSF aggregations
- via import and enhancement we have most of the recommended identifier DOI, ORCID, INSPIRE-ID, PUBMED-ID, ...
 - we could re-use programs of the Helmholtz/POF statistic tool

Can we deliver to a current research information system in our organizations?

The image displays a collage of screenshots from various research information systems, illustrating the complexity of integrating different data sources. The systems shown include:

- ORCID:** Profile for Katrin Große, showing her ORCID ID and affiliations.
- DESY:** Profile for Stefan Rathmann, showing his ORCID ID and recent publications.
- Accelerator Research and Development (ARD):** Grant information for the period 2012-2013.
- OSLEX-5339:** Grant information for the study of pion-induced in-medium production and propagation of strange particles.
- SPB TRR 55:** Grant information for hadron physics with lattice QCD.
- Collaboration FAIR: R3B (R3B@FAIR):** Information about the FAIR facility for antiproton and ion research in Europe GmbH.
- Helmholtz Research School of Biophysics (HRS-BioSoft):** Information about the research school.
- Cosmic Matter in the Laboratory:** Grant information for the period 2015-2019.

Can we deliver to a current research information system in our organizations?

Some special fields are problematic for our implementation:

- peer-reviewed (missing computer operational definition)
- separation paper-online publication (contradiction to our statistics tool)
- some specialized values and specifications are not really relevant for our research fields (e.g. bibliography), because of different culture in publication background

So we have to make some compromises.

Main reason is that for our scientists the entry template must be usable and understandable without huge handbooks or trainings

One of the next steps

One of the next steps in JOIN2 is to implement a CERIF export format as one of our output formats for the coming current research information systems in our organizations, which are not decided yet.

If the CERIF information will be made open in our instances is not decided also.

THANK YOU.
QUESTIONS?

Typical websubmit: PubDB / DESY

Import field (DOI, arXiv,...)

Is fill out the most fields

Groups, institutes,...

Programm-orientierte
Förderung (POF):
Helmholtz Association

Another grants, e.g. EU
projects, German SFB,
BMBF, etc.

Journal and conference
information's

Submit New Record

Journal Article

Import data [?] e.g. DOI, arXiv, PUBMED... **Relevant for Reporting** * [?] yes no

Group(s) directly involved * [?]
MPY: Beschleunigerphysik
Select or type in name, shortcut (e.g. ATLAS, FS-PE, MKK)

POF III: Topic/Research Theme/Facility * [?]
631 - Accelerator R & D (POF III: 2015 - 2019)
Select from list or type ID, Name of POF-Topic...

Beamline/Experiment/Facility * [?]
Facility (machine) XFEL (XFEL)
e.g. REGAE

Grant name / Proposal No. [?]
631 - Accelerator R & D (POF III: 2015 - 2019)
EuPRAXIA - Proposal for a Horizon 2020 Design Study on the
"European Plasma Research Accelerator with eXcellence In
Applications" (EuPRAXIA) (2015-11-01 - 2019-10-31)
e.g. EU project, FS proposal number (e.g. I-20120768)

Report Number [?]
DESY-THESIS-001, arXiv-No.

Author(s) / Editor(s) * [?]
Bruce, R. [Extern] Author
Assmann, R. -> Assmann, Ralph (DESY / MPY) Author
Redaelli, S. [Extern] Author
Start typing lastname and select...

Title * [?]
Calculations of safe collimator settings and β * at the CERN Large Hadron
Collider

Title preview:
Calculations of safe collimator settings and β * at the CERN Large Hadron
Collider

Journal * [?] Nuclear instruments & methods in physics research / A

DOI [?] 10.1103/PhysRevSTAB.18.061001

Volume * [?] 18 **Issue** [?] 6 **Pages** * [?] 061001

Title of Special Issue [?] ISBN of Special Issue [?]

Publication Year * [?] 2015 **Language** [?] Click to select...

Conference name [?] e.g. The 10th International Conference on Supersymmetry and Unification of Fundamental Interactions

Acronym [?] e.g. SUSY02 **Place** [?] e.g. Hamburg

Country [?] e.g. Germany **Begin** [?] Select from **End** [?] Select from

Experiments, beamlines,
facilities, etc.

Authors suggestion

Typical authority records for grants

Information Usage statistics Files

631

Accelerator R & D

Coordinator Brinkmann, Reinhard
Grant period 2015 - 2019
Funding body Helmholtz Gemeinschaft Deutscher Forschungszentren
Categories Leistungskategorie I ; Topic
Identifier G:(DE-HGF)POF3-631

[Materie und Technologie](#)

RECENT PUBLICATIONS

All known publications
 Download: BibTeX | EndNote XML, Text | RIS |

Journal Article/Contribution to a conference proceedings
 Kononenko, O. ; Lopes, N. C. ; Cole, J. M. ; Kamperidis, C. ; Mangles, S. P. ; Najmudin, Z. ; Osterhoff, J. ; Palmer, C. A. J. ; Pöder, K. ; Rusby, D. ; Symes, D. R. ; Warwick, J. ; Wood, J. C.
2D hydrodynamic simulations of a variable length gas target for density down-ramp injection of electrons into a laser wakefield accelerator
 European Advanced Accelerator Conference, EAAC, Isola Elba, Italy, 14 Sep 2015 - 18 Sep 2015
 Nuclear instruments & methods in physics research / A -, - (2016) [10.1016/j.nima.2016.03.104] [LIBRARIES FOR](#)

Journal Article
 Mehring, T. J. ; Robson, R. E. ; Erbe, J.-H. ; Osterhoff, J.
Efficient numerical modelling of the emittance evolution of beams with finite energy spread in plasma wakefield accelerators
 Nuclear instruments & methods in physics research / A ?, S0168900216001418 (2016) [10.1016/j.nima.2016.01.091] [LIBRARIES FOR](#)

```
000153252 001_ 153252
000153252 005_ 20150507130422.0
000153252 0247_ $$2G:(DE-HGF)$$aG:(DE-HGF)POF3-631
000153252 035_ $$aG:(DE-HGF)POF3-631
000153252 150_ $$aAccelerator R & D$$xPOF III$$y2015 - 2019
000153252 371_ $$0P:(DE-H253)PIP1002844 $$aBrinkmann, Reinhard
000153252 372_ $$aPOF III$$z2015$$t2019
000153252 450_ $$5HGF$$a631$$wd
000153252 450_ $$aBeschleunigerforschung und -Entwicklung $$iger$$wr
000153252 450_ $$aAccelerator Research and Development $$ieng$$swr
000153252 5101_ $$0I:(DE-588b)5165524-X$$aHelmholtz Gemeinschaft Deutscher Forschungszentren
000153252 550_ $$0G:(DE-HGF)POF3-630$$aMaterie und Technologie$$wt
000153252 750_7 $$0V:(DE-HGF)13$$2V:(DE-HGF)$$aLeistungskategorie I
000153252 750_7 $$0V:(DE-HGF)3$$2V:(DE-HGF)$$aTopic
000153252 751_7 $$2DE-HGF$$aIGN_4_I:(DE-H253)HASYLAB-20120731 [DESY]
000153252 751_7 $$2DE-HGF$$aIGN_4_I:(DE-H253)Extern-20130219 [DESY]
000153252 751_7 $$2DE-HGF$$aIGN_4_I:(DE-H253)EMBL-20120731 [DESY]
000153252 909CO $$ooai:juser.fz-juelich.de:136765$$pauthority$$pauthority:GRANT
000153252 980_ $$aG
000153252 980_ $$aAUTHORITY
```

Information Usage statistics Files

EuPRAXIA

Proposal for a Horizon 2020 Design Study on the "European Plasma Research Accelerator with eXcellence In Applications" (EuPRAXIA)

Coordinator SCIENCE AND TECHNOLOGY FACILITIES COUNCIL / UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA / UNIVERSITY OF STRATHCLYDE / THE UNIVERSITY OF LIVERPOOL / ISTITUTO NAZIONALE DI FISICA NUCLEARE / Société Civile Synchrotron SOLEIL / STIFTUNG DEUTSCHES ELEKTRONEN-SYNCHROTRON DESY / THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD / CONSIGLIO NAZIONALE DELLE RICERCHE / UNIVERSITAET HAMBURG / THE UNIVERSITY OF MANCHESTER / ASSOCIAÇÃO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGAÇÃO E DESENVOLVIMENTO / AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE / CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE / COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES / IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

Grant period 2015-11-01 - 2019-10-31
Funding body European Union
 Horizon 2020 Framework Programme
Call number H2020-INFRADEV-1-2014-1
Grant number 653782
Identifier G:(EU-Grant)653782

RECENT PUBLICATIONS

All known publications
 Download: BibTeX | EndNote XML, Text | RIS |

Talk (non-conference) (Plenary/Keynote)
 Assmann, R.
EuPRAXIA Kick-Off-Meeting
 H2020 EuPRAXIA Kick-Off-Meeting, Hamburg, DESY, DESY, Germany, 26 Nov 2015 - 27 Nov 2015 (2015)
 Conference Presentation (Invited)
 Assmann, R.
The EuPRAXIA Project- a european plasma accelerator
 Annual meeting IZEST, Palaiseau Cedex, Laboratoire des physique des plasmas, France, 15 Oct 2015 - 16 Oct 2015 (2015)

- Mapping of structures (organizations), e.g. top level grants
- Connection to bibliographic records
- Additional information's, like chairman, institutes, etc.
- We use identifier!

statURL.py: Preselection of HGFStatistics2



rthiele :: logout

SEARCH | SUBMIT | PERSONALIZE | HELP ADMINISTRATION ▾

PUBDB

DESY Publication Database

Home

Please fill out with year or year range:

At least one internal author?

At least one external author?

POF Period:

Additional Parameters:

Collection:

POF Category:

Cache:

Calculation of: POF Institutes Grants Experiments Conferences

- Which year or year range?
- At least one internal author?
- At least one external author?
- Which POF period (POF I-III)
- Which workflow collection?
- Which POF category? (field of research, program, topic, subtopic)
- Using of cached data?
- Which parts of calculations?

