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Planck intermediate results.

XLV. Radio spectra of northern extragalactic radio sources.

Planck Collaboration, Ade P.A.R., Aghanim N., Aller H.D., Aller M.F., Arnaud M., Aumont J., Baccigalupi C., Banday A.J., Barreiro R.B., Bartolo N., Battaner E., Benabed K., Benoit-Levy A., Bernard J.-P., Bersanelli M., Bielewicz P., Bonaldi A., Bonavera L., Bond J.R., Borrill J., Bouchet F.R., Burigana C., Calabrese E., Catalano A., Chiang H.C., Christensen P.R., Clements D.L., Colombo L.P.L., Couchot F., Crill B.P., Curto A., Cuttaia F., Danese L., Davies R.D., Davis R.J., De Bernardis P., De Rosa A., De Zotti G., Delabrouille J., Dickinson C., Diego J.M., Dole H., Donzelli S., Dore O., Ducout A., Dupac X., Efstathiou G., Elsner F., Eriksen H.K., Finelli F., Forni O., Frailis M., Fraisse A.A., Franceschi E., Galeotta S., Galli S., Ganga K., Giard M., Giraud-Heraud Y., Gjerlow E., Gonzalez-Nuevo J., Gorski K.M., Gruppuso A., Gurwell M.A., Hansen F.K., Harrison D.L., Henrot-Versille S., Hernandez-Monteagudo C., Hildebrandt S.R., Hobson M., Hornstrup A., Hovatta T., Hovest W., Huffenberger K.M., Hurier G., Jaffe A.H., Jaffe T.R., Jarvela E., Keihanen E., Kesitalo R., Kisner T.S., Kneissl R., Knoche J., Kunz M., Kurki-Suonio H., Lahteenmaki A., Lamarre J.-M., Lasenby A., Lattanzi M., Lawrence C.R., Leonardi R., Levrier F., Liguori M., Lilje P.B., Linden-Vornle M., Lopez-caniego M., Lubin P.M., Macias-Perez J.F., Maffei B., Maino D., Mandolesi N., Maris M., Martin P.G., Martinez-Gonzalez E., Masi S., Matarrese S., Max-Moerbeck W., Meinhold P.R., Melchiorri A., Mennella A., Migliaccio M., Mingaliev M., Miville-Deschenes M.-A., Moneti A., Montier L., Morgante G., Mortlock D., Munshi D., Murphy J.A., Nati F., Natoli P., Nieppola E., Noviello F., Novikov D., Novikov I., Pagano L., Pajot F., Paoletti D., Partridge B., Pasian F., Pearson T.J., Perdereau O., Perotto L., Pettorino V., Piacentini F., Piat M., Pierpaoli E., Plaszczynski S., Pointecouteau E., Polenta G., Pratt G.W., Ramakrishnan V., Rastorgueva-Foi E.A., Readhead A.C.S., Reinecke M., Remazeilles M., Renault C., Renzi A., Richards J.L., Ristorcelli I., Rocha G., Rossetti M., Roudier G., Rubino-Martin J.A., Rusholme B., Sandri M., Savelainen M., Savini G., Scott D., Sotnikova Y., Stolyarov V., Sunyaev R., Sutton D., Suur-Uski A.-S., Sygnet J.-F., Tammi J., Tauber J.A., Terenzi L., Toffolatti L., Tomasi M., Tornikoski M., Tristram M., Tucci M., Turler M., Valenziano L., Valiviita J., Valtaoja E., Van Tent B., Vielva P., Villa F., Wade L.A., Wehrle A.E., Wehus I.K., Yvon D., Zacchei A., Zonca A.

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**ADC\_Keywords:** Active gal. nuclei ; Radio sources ; QSOs

**Keywords:** galaxies: active - galaxies: general - radio continuum: galaxies

#### Abstract:

Continuum spectra covering centimetre to submillimetre wavelengths are presented for a northern sample of 104 extragalactic radio sources, mainly active galactic nuclei, based on four-epoch Planck data. The nine Planck frequencies, from 30 to 857GHz, are complemented by a set of simultaneous ground-based radio observations between 1.1 and 37GHz. The single-survey Planck data confirm that the flattest high-frequency radio spectral indices are close to zero, indicating that the original accelerated electron energy spectrum is much harder than commonly thought, with power-law index around 1.5 instead of the canonical 2.5. The radio spectra peak at high frequencies and exhibit a variety of shapes. For a small set of low-*z* sources, we find a spectral upturn at high frequencies, indicating the presence of intrinsic cold dust. Variability can generally be approximated by achromatic variations, while sources with clear signatures of evolving shocks appear to be limited to the strongest outbursts.

#### Description:

The complete sample presented in this paper consists of 104 northern and equatorial radio-loud AGN. It includes all AGN with declination  $\geq -10^\circ$  that have a measured average radio flux density at 37GHz exceeding 1Jy. Most of the sample sources have been monitored at Metsahovi Radio Observatory for many years, and the brightest sources have been observed for up to 30yr.

#### File Summary:

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
<a href="#">tableal.dat</a>	63	104	Complete 1Jy northern AGN sample

#### See also:

[J/A+A/565/A103](#) : Anomalous microwave emission in Galactic clouds (Planck+ 2014)

[J/A+A/586/A139](#) : Optical ident. & redshifts of Planck SZ sources (Planck+ 2016)

[J/A+A/596/A100](#) : Planck high-*z* source candidates catalog (PHZ) (Planck+, 2016)

**Byte-by-byte Description of file:** [tableal.dat](#)

Bytes	Format	Units	Label	Explanations
1- 14	A14	---	Source	Source name
16- 29	A14	---	OName	Other name
30- 32	A3	---	Class	Classification ( <a href="#">1</a> )
34- 35	I2	<a href="#">h</a>	RAh	Right ascension (J2000)
37- 38	I2	<a href="#">min</a>	RAm	Right ascension (J2000)
40- 44	F5.2	<a href="#">s</a>	RA s	Right ascension (J2000)
46	A1	---	DE-	Declination sign (J2000)
47- 48	I2	<a href="#">deg</a>	DEd	Declination (J2000)
50- 51	I2	<a href="#">arcmin</a>	DEm	Declination (J2000)
53- 57	F5.2	<a href="#">arcsec</a>	DEs	Declination (J2000)
59- 63	F5.3	---	z	Redshift

**Note (1):** Classification as follows:

HPQ = high-polarized quasars  
 LPQ = low-polarized quasars  
 BLO = BL Lacertae objects  
 QSO = quasi-stellar objects  
 GAL = radio galaxies  
 UNK = unclassified source

**History:**

From electronic version of the journal

**References:**

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**(End)**

Patricia Vannier [CDS] 13-Apr-2017

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