



Publication Year	2017
Acceptance in OA	2020-08-20T11:08:48Z
Title	VizieR Online Data Catalog: 1Jy northern AGN sample (Planck+, 2016)
Authors	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, CARLO, 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, FRANCESCO, 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, FABIO, Forni, O., FRAILIS, Marco, Fraisse, A. A., FRANCESCHI, ENRICO, GALEOTTA, Samuele, Galli, S., Ganga, K., Giard, M., Giraud-Heraud, Y., Gjerlow, E., Gonzalez-Nuevo, J., Gorski, K. M., GRUPPUSO, ALESSANDRO, 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., Keskitalo, 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, Michele, 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, GIANLUCA, Mortlock, D., Munshi, D., Murphy, J. A., Nati, F., Natoli, P., Nieppola, E., Noviello, F., Novikov, D., Novikov, I., Pagano, L., Pajot, F., PAOLETTI, DANIELA, 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, MARIACHIARA, Roudier, G., Rubino-Martin, J. A., Rusholme, B., SANDRI, MAURA, 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., TERENCE, LUCA, Toffolatti, L., Tomasi, M., Tornikoski, M., Tristram, M., Tucci, M., Turler, M., VALENZIANO, LUCA, Valiviita, J., Valtaoja, E., van Tent, B., Vielva, P., VILLA, FABRIZIO, Wade, L. A., Wehrle, A. E., Wehus, I. K. Yvon, D., ZACCHEI, Andrea, Zonca, A.
Publisher's version (DOI)	10.26093/cds/vizieer.35960106



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., Kesikitalo 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.

<Astron. Astrophys., 596, A106 (2016)>

=[2016A&A...596A.106P](#) (SIMBAD/NED BibCode)

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
tableal.dat	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 (1)
34- 35	I2	h	RAh	Right ascension (J2000)
37- 38	I2	min	RAm	Right ascension (J2000)
40- 44	F5.2	s	RA s	Right ascension (J2000)
46	A1	---	DE-	Declination sign (J2000)
47- 48	I2	deg	DEd	Declination (J2000)
50- 51	I2	arcmin	DEm	Declination (J2000)
53- 57	F5.2	arcsec	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:

Planck Collaboration, Paper I [2012A&A...543A.102P](#)
 Planck Collaboration, Paper II [2013A&A...550A.128P](#)
 Planck Collaboration, Paper III [2013A&A...550A.129P](#)
 Planck Collaboration, Paper IV [2013A&A...550A.130P](#)
 Planck Collaboration, Paper V [2013A&A...550A.131P](#)
 Planck Collaboration, Paper VI [2013A&A...550A.132P](#)
 Planck Collaboration, Paper VII [2013A&A...550A.133P](#)
 Planck Collaboration, Paper VIII [2013A&A...550A.134P](#)
 Planck Collaboration, Paper IX [2013A&A...554A.139P](#)
 Planck Collaboration, Paper X [2013A&A...554A.140P](#)
 Planck Collaboration, Paper XI [2013A&A...557A..52P](#)
 Planck Collaboration, Paper XII [2013A&A...557A..53P](#)
 Planck Collaboration, Paper XIII [2014A&A...561A..97P](#)
 Planck Collaboration, Paper XIV [2014A&A...564A..45P](#)
 Planck Collaboration, Paper XV [2014A&A...565A.103P](#), Cat. [J/A+A/565/A103](#)
 Planck Collaboration, Paper XVI [2014A&A...566A..54P](#)
 Planck Collaboration, Paper XVII [2014A&A...566A..55P](#)
 Planck Collaboration, Paper XVIII [2015A&A...573A...6P](#)
 Planck Collaboration, Paper XIX [2015A&A...576A.104P](#)
 Planck Collaboration, Paper XX [2015A&A...576A.105P](#)
 Planck Collaboration, Paper XXI [2015A&A...576A.106P](#)
 Planck Collaboration, Paper XXII [2015A&A...576A.107P](#)
 Planck Collaboration, Paper XXIII [2015A&A...580A..13P](#)
 Planck Collaboration, Paper XXIV [2015A&A...580A..22P](#)
 Planck Collaboration, Paper XXV [2015A&A...580A..28P](#)
 Planck Collaboration, Paper XXVI [2015A&A...580A..29P](#)
 Planck Collaboration, Paper XXVII [2015A&A...580A..30P](#)
 Planck Collaboration, Paper XXVIII [2015A&A...580A..31P](#)
 Planck Collaboration, Paper XXIX [2016A&A...586A.132P](#)
 Planck Collaboration, Paper XXX [2016A&A...586A.133P](#)
 Planck Collaboration, Paper XXXI [2016A&A...586A.134P](#)
 Planck Collaboration, Paper XXXII [2016A&A...586A.135P](#)
 Planck Collaboration, Paper XXXIII [2016A&A...586A.136P](#)
 Planck Collaboration, Paper XXXIV [2016A&A...586A.137P](#)
 Planck Collaboration, Paper XXXV [2016A&A...586A.138P](#)
 Planck Collaboration, Paper XXXVI [2016A&A...586A.139P](#), Cat. [J/A+A/586/A139](#)
 Planck Collaboration, Paper XXXVII [2016A&A...586A.140P](#)
 Planck Collaboration, Paper XXXVIII [2016A&A...586A.141P](#)
 Planck Collaboration, Paper XXXIX [2016A&A...596A.100P](#), Cat. [J/A+A/596/A100](#)
 Planck Collaboration, Paper XL [2016A&A...596A.101P](#)
 Planck Collaboration, Paper XLI [2016A&A...596A.102P](#)
 Planck Collaboration, Paper XLII [2016A&A...596A.103P](#)
 Planck Collaboration, Paper XLIII [2016A&A...596A.104P](#)
 Planck Collaboration, Paper XLIV [2016A&A...596A.105P](#)
 Planck Collaboration, Paper XLV [2016A&A...596A.107P](#)
 Planck Collaboration, Paper XLVII [2016A&A...596A.108P](#)
 Planck Collaboration, Paper XLVIII [2016A&A...596A.109P](#)
 Planck Collaboration, Paper XLIX [2016A&A...596A.110P](#)
 Planck Collaboration, Paper L [2017A&A...599A..51P](#)

(End)

Patricia Vannier [CDS] 13-Apr-2017

The document above follows the rules of the [Standard Description for Astronomical Catalogues](#); from this documentation it is possible to generate [f77](#) program to load files [into arrays](#) or [line by line](#)

© Université de Strasbourg/CNRS