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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., Huppenberger, 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.
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J/A+A/596/A1061Jy northern AGN sample(Planck+, 2016)

Planck intermediate results.

XLV. Radio spectra of northern extragalactic radio sources.

Planck Collaboration, Ade P.A.R., Aghanim N., Allert H.D., Allert 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., Gruppiso 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., Ristorelli 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., Zaccchi A., Zonca A.

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=[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
tablea1.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: [tablea1.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](#)
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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](#)
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Planck Collaboration, Paper XVII [2014A&A...566A..55P](#)
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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](#)
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Planck Collaboration, Paper XXVII [2015A&A...580A..30P](#)
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Planck Collaboration, Paper XXXII [2016A&A...586A.135P](#)
Planck Collaboration, Paper XXXIII [2016A&A...586A.136P](#)
Planck Collaboration, Paper XXXIV [2016A&A...586A.137P](#)
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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](#)
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Planck Collaboration, Paper XLI [2016A&A...596A.102P](#)
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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](#)
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(End) Patricia Vannier [CDS] 13-Apr-2017

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