

References

- Abdo, A. A., et al. 2009a, *ApJ*, 700, 597.
- . 2009b, *Phys. Rev. Lett.*, 103, 251101.
- . 2009c, *ApJ*, 699, 976.
- . 2010a, *ApJS*, 188, 405.
- . 2010b, *ApJ*, 715, 429.
- . 2010c, *ApJ*, 716, 30.
- Acciari, V. A., et al. 2009, *Science*, 325, 444.
- . 2010, *ApJ*, 709, L163.
- Ackermann, M., et al. 2011, *ApJ*, 741, 30.
- Aharonian, F., et al. 2007, *ApJ*, 664, L71.
- . 2009, *A&A*, 502, 749.
- Aller, M. F., Aller, H. D., & Hughes, P. A. 1992, *ApJ*, 399, 16.
- . 2003, *ApJ*, 586, 33.
- Aller, M. F., Aller, H. D., Hughes, P. A., & Latimer, G. E. 1999, *ApJ*, 512, 601.
- Andrew, B. H., MacLeod, J. M., Harvey, G. A., & Medd, W. J. 1978, *AJ*, 83, 863.
- Angelakis, E., Fuhrmann, L., Nestoras, I., Zensus, J. A., Marchili, N., Pavlidou, V., & Krichbaum, T. P. 2010, in *Proceedings of the Workshop “Fermi meets Jansky: AGN in Radio and Gamma-Rays”*, ed. T. Savolainen, E. Ros, R. W. Porcas, & J. A. Zensus, 81–84, http://www.mpifr-bonn.mpg.de/div/vlbi/agn2010/PdfFiles/fmj2010_complete.pdf.
- Angelakis, E., Kraus, A., Readhead, A. C. S., Zensus, J. A., Bustos, R., Krichbaum, T. P., Witzel, A., & Pearson, T. J. 2009, *A&A*, 501, 801.

- Antonucci, R., & Miller, J. S. 1985, *ApJ*, 297, 621.
- Atwood et al. 2009, *ApJ*, 697, 1071.
- Baade, W., & Minkowski, R. 1954a, *ApJ*, 119, 206.
- . 1954b, *ApJ*, 119, 215.
- Baars, J. W. M., Genzel, R., Pauliny-Toth, I. I. K., & Witzel, A. 1977, *A&A*, 61, 99.
- Barthel, P. D. 1989, *ApJ*, 336, 606.
- Begelman, M. C., Blandford, R. D., & Rees, M. J. 1984, *Rev. Mod. Phys.*, 56, 255.
- Bennett, A. S. 1962, *MmRAS*, 68, 163.
- Blake, G. M. 1970, *Astrophys. Lett.*, 6, 201.
- Blandford, R. D., & Königl, A. 1979, *ApJ*, 232, 34.
- Blandford, R. D., & Levinson, A. 1995, *ApJ*, 441, 79.
- Blandford, R. D., & Payne, D. G. 1982, *MNRAS*, 199, 883.
- Blandford, R. D., & Rees, M. J. 1974, *MNRAS*, 169, 395.
- . 1978, in *Pittsburgh Conference on BL Lac Objects, Pittsburgh, Pa., April 24–26, 1978, Proceedings.*, ed. A. M. Wolfe, 328–341.
- Blandford, R. D., & Znajek, R. L. 1977, *MNRAS*, 179, 433.
- Błażejowski, M., Sikora, M., Moderski, R., & Madejski, G. M. 2000, *ApJ*, 545, 107.
- Blondin, S., et al. 2008, *ApJ*, 682, 724.
- Böttcher, M. 2007, *Ap&SS*, 309, 95.
- Burbidge, G. R. 1959, *ApJ*, 129, 849.
- Bustos, R. A. 2008, PhD thesis, Universidad de Concepción.
- Cohen, M. H., Cannon, W., Purcell, G. H., Shaffer, D. B., Broderick, J. J., Kellermann, K. I., & Jauncey, D. L. 1971, *ApJ*, 170, 207.
- Cohen, M. H., Lister, M. L., Homan, D. C., Kadler, M., Kellermann, K. I., Kovalev, Y. Y., & Vermeulen, R. C. 2007, *ApJ*, 658, 232.

- Curtis, H. D. 1918, in Publications of the Lick Observatory, Vol. XIII, *Studies of the nebulae made at the Lick Observatory, University of California, at Mount Hamilton, California, and Santiago, Chile* (Berkeley: University of California Press), 9–42.
- Dennett-Thorpe, J., & de Bruyn, A. G. 2000, *ApJ*, 529, L65.
- Dent, W. A. 1965, *Science*, 148, 1458.
- . 1966, *ApJ*, 144, 843.
- Dermer, C. D. 1995, *ApJ*, 446, L63.
- Dermer, C. D., Schlickeiser, R., & Mastichiadis, A. 1992, *A&A*, 256, L27.
- Dermer, C. D., Sturner, S. J., & Schlickeiser, R. 1997, *ApJS*, 109, 103.
- Edelson, R., Turner, T. J., Pounds, K., Vaughan, S., Markowitz, A., Marshall, H., Dobbie, P., & Warwick, R. 2002, *ApJ*, 568, 610.
- Edge, D. O., Shakeshaft, J. R., McAdam, W. B., Baldwin, J. E., & Archer, S. 1959, *MmRAS*, 68, 37.
- Evans, G., & McLeish, C. W. 1977, *RF Radiometer Handbook* (Dedham, MA: Artech).
- Fanaroff, B. L., & Riley, J. M. 1974, *MNRAS*, 167, 31P.
- Fermi*-LAT Collaboration et al. 2010, *Nature*, 463, 919.
- Fossati, G., Maraschi, L., Celotti, A., Comastri, A., & Ghisellini, G. 1998, *MNRAS*, 299, 433.
- Fragile, P. C. 2008, in *Proceedings of the VII Microquasar Workshop: “Microquasars and Beyond.”*, 39, <http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=62>.
- Fuhrmann, L., Zensus, J. A., Krichbaum, T. P., Angelakis, E., & Readhead, A. C. S. 2007, in American Institute of Physics Conference Series, Vol. 921, *The First GLAST Symposium*, ed. S. Ritz, P. Michelson, & C. A. Meegan, 249–251.
- Ghirlanda, G., Ghisellini, G., Tavecchio, F., & Foschini, L. 2010, *MNRAS*, 407, 791.
- Ghisellini, G., Celotti, A., Fossati, G., Maraschi, L., & Comastri, A. 1998, *MNRAS*, 301, 451.
- Górski, K. M., Hivon, E., Banday, A. J., Wandelt, B. D., Hansen, F. K., Reinecke, M., & Bartelmann, M. 2005, *ApJ*, 622, 759.
- Hargrave, P. J., & Ryle, M. 1974, *MNRAS*, 166, 305.
- Hartman, R. C., et al. 1999, *ApJS*, 123, 79.
- Healey, S. E., et al. 2008, *ApJ*, 175, 97.

- Herbig, T. 1994, PhD thesis, California Institute of Technology.
- Hovatta, T., Nieppola, E., Tornikoski, M., Valtaoja, E., Aller, M. F., & Aller, H. D. 2008, *A&A*, 485, 51.
- Hovatta, T., Tornikoski, M., Lainela, M., Lehto, H. J., Valtaoja, E., Aller, M. F., & Aller, H. D. 2007, *A&A*, 469, 899.
- Hughes, P. A., Aller, H. D., & Aller, M. F. 1992, *ApJ*, 396, 469.
- Hunter, J. D. 2007, *Computing in Science & Engineering*, 9, 90.
- Hunter, S. D., et al. 1997, *ApJ*, 481.
- Ioannidis, J. P. A. 2005, *PLoS Med.*, 2, e124.
- Jarosik, N. C. 1996, *IEEE Trans. MTT*, 44, 193.
- Jauncey, D. L., Kedziora-Chudczer, L. L., Lovell, J. E. J., Nicolson, G. D., Perley, R. A., Reynolds, J. E., Tzioumis, A. K., & Wieringa, M. H. 2000, in *Astrophysical Phenomena Revealed by Space VLBI*, ed. H. Hirabayashi, P. G. Edwards, & D. W. Murphy, 147–150.
- Jennison, R. C., & Das Gupta, M. K. 1953, *Nature*, 172, 996.
- Jorstad, S. G., Marscher, A. P., Mattox, J. R., Aller, M. F., Aller, H. D., Wehrle, A. E., & Bloom, S. D. 2001a, *ApJ*, 556, 738.
- Jorstad, S. G., Marscher, A. P., Mattox, J. R., Wehrle, A. E., Bloom, S. D., & Yurchenko, A. V. 2001b, *ApJS*, 134, 181.
- Kedziora-Chudczer, L., Jauncey, D. L., Wieringa, M. H., Walker, M. A., Nicolson, G. D., Reynolds, J. E., & Tzioumis, A. K. 1997, *ApJ*, 490, L9.
- Kellermann, K. I., Clark, B. G., Niell, A. E., & Shaffer, D. B. 1975, *ApJ*, 197, L113.
- Kellermann, K. I., Sramek, R., Schmidt, M., Shaffer, D. B., & Green, R. 1989, *AJ*, 98, 1195.
- Kellermann, K. I., et al. 2004, *ApJ*, 609, 539.
- . 2007, *Ap&SS*, 311, 231.
- Konigl, A. 1981, *ApJ*, 243, 700.
- Kovalev, Y. Y., et al. 2009, *ApJ*, 696, L17.
- Kraus, A., et al. 2003, *A&A*, 401, 161.
- Krolik, J. H. 1999, *Active Galactic Nuclei* (Princeton, NJ: Princeton University Press).

- Ledlow, M. J., & Owen, F. N. 1996, *AJ*, 112, 9.
- Leitch, E. M. 1998, PhD thesis, California Institute of Technology.
- Lilliefors, H. W. 1967, *J. Am. Stat. Assoc.*, 62, 399.
- Linford, J. D., Taylor, G. B., Romani, R. W., Helmboldt, J. F., Readhead, A. C. S., Reeves, R., & Richards, J. L. 2012, *ApJ*, 744, 177.
- Linford, J. D., et al. 2011, *ApJ*, 726, 16.
- Lister, M. L., & Homan, D. C. 2005, *AJ*, 130, 1389.
- Lister, M. L., & Marscher, A. P. 1997, *ApJ*, 476, 572.
- Lovell, J. E. J., et al. 2008, *ApJ*, 689, 108.
- Lynden-Bell, D. 1969, *Nature*, 223, 690.
- MacLeod, J. M., & Andrew, B. H. 1968, *Astrophys. Lett.*, 1, 243.
- Macquart, J., & de Bruyn, A. G. 2007, *MNRAS*, 380, L20.
- Mahony, E. K., Sadler, E. M., Murphy, T., Ekers, R. D., Edwards, P. G., & Massardi, M. 2010, *ApJ*, 718, 587.
- Maltby, P., & Moffet, A. T. 1962, *ApJS*, 7, 141.
- Mannheim, K. 1993, *A&A*, 269, 67.
- Maraschi, L., Ghisellini, G., & Celotti, A. 1992, *ApJ*, 397, L5.
- Markarian, B. E. 1967, *Astrofizika*, 3, 24.
- Markaryan, B. E., Lipovetskii, V. A., & Stepanyan, D. A. 1981, *Astrophysics*, 17, 321.
- Marscher, A. P., & Gear, W. K. 1985, *ApJ*, 298, 114.
- Marscher, A. P., et al. 2008, *Nature*, 452, 966.
- Matthews, T. A., & Sandage, A. R. 1963, *ApJ*, 138, 30.
- Mattox, J. R., et al. 1996, *ApJ*, 461, 396.
- Max-Moerbeck, W., et al. 2010, in *Proceedings of the Workshop “Fermi meets Jansky: AGN in Radio and Gamma-Rays”*, ed. T. Savolainen, E. Ros, R. W. Porcas, & J. A. Zensus, 77–80, http://www.mpifr-bonn.mpg.de/div/vlbi/agn2010/PdfFiles/fmj2010_complete.pdf.
- McKinney, J. C., & Blandford, R. D. 2009, *MNRAS*, 394, L126.

- Meyer, E. T., Fossati, G., Georganopoulos, M., & Lister, M. L. 2011, *ApJ*, 740, 98.
- Mills, B. Y., & Slee, O. B. 1957, *Aust. J. Phys.*, 10, 162.
- Moffet, A. T. 1973, “Circular Polarization in Waveguide Feeds,” unpublished memorandum, 19 July, 1973.
- Moffet, A. T., Gubbay, J., Robertson, D. S., & Legg, A. J. 1972, in IAU Symposium, Vol. 44, *External Galaxies and Quasi-Stellar Objects*, ed. D. S. Evans, D. Wills, & B. J. Wills, 228.
- Mücke, A., et al. 1997, *A&A*, 320, 33.
- Myers, S. T., Baker, J. E., Readhead, A. C. S., Leitch, E. M., & Herbig, T. 1997, *ApJ*, 485, 1.
- NOAA. 2010, Average temperature profile of the atmosphere, <http://www.srh.noaa.gov/jetstream/atmos/atmprofile.htm>.
- Ojha, R., et al. 2010, *A&A*, 519, A45.
- Orr, M. J. L., & Browne, I. W. A. 1982, *MNRAS*, 200, 1067.
- Ott, M., Witzel, A., Quirrenbach, A., Krichbaum, T. P., Standke, K. J., Schalinski, C. J., & Hummel, C. A. 1994, *A&A*, 284, 331.
- Padovani, P., Ghisellini, G., Fabian, A. C., & Celotti, A. 1993, *MNRAS*, 260, L21.
- Pavlidou, V., et al. 2012, *ApJ*, *in press*.
- Pearson, T. J. 1999, Telescope Control System for the OVRO 40-m and 5.5-m antennas, <http://www.astro.caltech.edu/~tjp/ovroman/manual.html>.
- Pearson, T. J., Unwin, S. C., Cohen, M. H., Linfield, R. P., Readhead, A. C. S., Seielstad, G. A., Simon, R. S., & Walker, R. C. 1981, *Nature*, 290, 365.
- Penna, R. F., McKinney, J. C., Narayan, R., Tchekhovskoy, A., Shafee, R., & McClintock, J. E. 2010, *MNRAS*, 408, 752.
- Punch, M., et al. 1992, *Nature*, 358, 477.
- QUIET Collaboration et al. 2011, *ApJ*, 741, 111.
- Readhead, A. C. S. 1994, *ApJ*, 426, 51.
- Readhead, A. C. S., Cohen, M. H., & Blandford, R. D. 1978a, *Nature*, 272, 131.
- Readhead, A. C. S., Cohen, M. H., Pearson, T. J., & Wilkinson, P. N. 1978b, *Nature*, 276, 768.
- Readhead, A. C. S., Lawrence, C. R., Myers, S. T., Sargent, W. L. W., Hardebeck, H. E., & Moffet, A. T. 1989, *ApJ*, 346, 566.

- Rees, M. J. 1966, *Nature*, 211, 468.
- Richards, J. L., et al. 2011, *ApJS*, 194, 29.
- Rickett, B., Kedziora-Chudczer, L., & Jauncey, D. L. 2002, *PASA*, 19, 106.
- Rickett, B. J., Lazio, T. J. W., & Ghigo, F. D. 2006, *ApJS*, 165, 439.
- Rohlfs, K., & Wilson, T. L. 2000, *Tools of Radio Astronomy* (Berlin: Springer-Verlag).
- Rybicki, G. B., & Lightman, A. P. 1979, *Radiative Processes in Astrophysics* (New York: John Wiley & Sons).
- Salamon, M. H., & Stecker, F. W. 1994, *ApJ*, 430, L21.
- Scargle, J. D. 2000, *J. Sci. Expl.*, 14, 91.
- Schmid, H. 2007, *IEEE Circ. and Syst.*, 7, 32.
- Schmidt, M. 1963, *Nature*, 197, 1040.
- . 1968, *ApJ*, 151, 393.
- Schmitt, J. L. 1968, *Nature*, 218, 663.
- Schott, G. A. 1912, *Electromagnetic radiation and the mechanical reactions arising from it; being an Adams prize essay in the University of Cambridge* (Cambridge: Cambridge University Press).
- Scott, P. F., & Ryle, M. 1961, *MNRAS*, 122, 389.
- Seyfert, C. K. 1943, *ApJ*, 97, 28.
- Shaw, M. S., et al. 2012a, *ApJ*, 748, 49.
- . 2012b, *in preparation*.
- Shepherd, M. C. 1997, in Astronomical Society of the Pacific Conference Series, Vol. 125, *Astronomical Data Analysis Software and Systems VI*, ed. G. Hunt & H. Payne, 77.
- . 2011a, “The OVRO 40m telescope drive system,” unpublished technical manual.
- . 2011b, The Telescope Scheduling Language, <http://www.astro.caltech.edu/~mcs/ovro/40m/help/>.
- Sikora, M., Begelman, M. C., & Rees, M. J. 1994, *ApJ*, 421, 153.
- Slipher, V. M. 1917, *Lowell Obs. Bull.*, 3, 59.
- Soldi, S., et al. 2008, *A&A*, 486, 411.

- Stecker, F. W., Hunter, S. D., & Kniffen, D. A. 2008, *Astropart. Phys.*, 29, 25.
- Stecker, F. W., Salamon, M. H., & Malkan, M. A. 1993, *ApJ*, 410, L71.
- Stevens, J. A., Litchfield, S. J., Robson, E. I., Hughes, D. H., Gear, W. K., Teräsranta, H., Valtaoja, E., & Tornikoski, M. 1994, *ApJ*, 437, 91.
- Taylor, G. B., et al. 2007, *ApJ*, 671, 1355.
- Teräsranta, H., et al. 2004, *A&A*, 427, 769.
- Thompson, D. J., et al. 1993, *ApJS*, 86, 629.
- Urry, C. M., & Padovani, P. 1995, *PASP*, 107, 803.
- van der Ziel, A. 1988, *Proc. IEEE*, 76, 233.
- Waldram, E. M., Pooley, G. G., Davies, M. L., Grainge, K. J. B., & Scott, P. F. 2010, *MNRAS*, 404, 1005.
- Wall, J. V., & Jenkins, C. R. 2003, *Practical Statistics for Astronomers* (Cambridge: Cambridge University Press).
- Weedman, D. W. 1977, *ARA&A*, 15, 69.
- Weekes, T. C., et al. 2002, *Astropart. Phys.*, 17, 221.
- Whitney, A. R., et al. 1971, *Science*, 173, 225.
- Wollack, E. J., & Pospieszalski, M. W. 1998, in *IEEE MTT-S International Microwave Symposium Digest*, 669–672.