

2012 - Refereed publications involving the 32-m Medicina and Noto radio telescopes

In the following list, publications involving the Medicina and Noto 32-m radio telescopes have been divided in two categories according to the observing technique: VLBI and Single-Dish. Publications related to the International VLBI Service for Geodesy and Astrometry are included among VLBI ones.

VLBI

- 1) Abramowski, A., et al. 2012, ApJ 746, 151. "The 2010 Very High Energy gamma-Ray Flare and 10 Years of Multi-wavelength Observations of M 87"
- 2) Alexandroff, R., et al. 2012, MNRAS 423, 1325. "A search for active galactic nuclei in the most extreme UV-selected starbursts using the European VLBI Network"
- 3) Altamimi, Z., Metivier, L. & Collilieux, X. 2012, Journal of Geophysical Research - Solid Earth 117, 7402. "ITRF2008 plate motion model"
- 4) An, T. & Baan, W. A. 2012, ApJ 760, 77. "The Dynamic Evolution of Young Extragalactic Radio Sources"
- 5) An, T., et al. 2012, ApJS 198, 5. "VLBI Observations of 10 Compact Symmetric Object Candidates: Expansion Velocities of Hot Spots"
- 6) Asada, K. & Nakamura, M. 2012, ApJ 745, 28. "The Structure of the M87 Jet: A Transition from Parabolic to Conical Streamlines"
- 7) Bartkiewicz, A., Szymczak, M. & van Langevelde, H. J. 2012, A&A 541, 72. "Milliarcsecond structure of water maser emission in two young high-mass stellar objects associated with methanol masers"
- 8) Batejat, F., et al. 2012, A&A 542, 24. "Rapid variability of the compact radio sources in Arp220. Evidence for a population of microblazars?"
- 9) Bondi, M., et al. 2012, A&A 539, 134. "The nuclear starburst in Arp 299-A: from the 5.0 GHz VLBI radio light-curves to its core-collapse supernova rate"
- 10) Bontempi, P., et al. 2012, MNRAS 426, 588. "Physical properties of the nuclear region in Seyfert galaxies derived from observations with the European VLBI Network"
- 11) Cseh, D., et al. 2012, ApJ 749, 17. "Black Hole Powered Nebulae and a Case Study of the Ultraluminous X-Ray Source IC 342 X-1"
- 12) Duev, D. A., et al. 2012, A&A 541, 43. "Spacecraft VLBI and Doppler tracking: algorithms and implementation"
- 13) Foster, J. B., et al. 2012, ApJ 751, 157. "Distances to Dark Clouds: Comparing Extinction

Distances to Maser Parallax Distances"

- 14) Frey, S., et al. 2012, MNRAS 425, 1185. "Two in one? A possible dual radio-emitting nucleus in the quasar SDSS J1425+3231"
- 15) Giroletti, M., et al. 2012, A&A 538, 10. "The kinematic of HST-1 in the jet of M 87"
- 16) Herrero-Illana, R., Perez-Torres, M. A. & Alberdi, A. 2012, A&A 540, 5. "Evidence of nuclear disks in starburst galaxies from their radial distribution of supernovae"
- 17) Honma, M., et al. 2012, PASJ 64, 136. "Fundamental Parameters of the Milky Way Galaxy Based on VLBI astrometry"
- 18) Kirsten, F. & Vlemmings, W. H. T. 2012, A&A 542, 44. "No evidence for a central IMBH in M 15"
- 19) La Delfa, S., et al. 2012, International Journal of Earth Sciences 101, 1065. "Geodetic techniques applied to the study of the Etna volcano area (Italy)"
- 20) Li, J. J., et al. 2012, ApJ 749, 47. "Massive Star Formation toward G28.87+0.07 (IRAS 18411-0338) Investigated by Means of Maser Kinematics and Radio to Infrared Continuum Observations"
- 21) Mesler, R. A., et al. 2012, ApJ 759, 4. "VLBI and Archival VLA and WSRT Observations of the GRB 030329 Radio Afterglow"
- 22) Moldon, J., Ribo, M. & Paredes, J. M. 2012, A&A 548, 103. "Periodic morphological changes in the radio structure of the gamma-ray binary LS 5039"
- 23) Moldon, J., et al. 2012, A&A 543, 26. "On the origin of LS 5039 and PSR J1825-1446"
- 24) Nafisi, V., et al. 2012, RaSc 47, 2020. "Ray-traced tropospheric delays in VLBI analysis"
- 25) O'Sullivan, S. P., et al. 2012, MNRAS 421, 3300. "Complex Faraday depth structure of active galactic nuclei as revealed by broad-band radio polarimetry"
- 26) Perucho, M., et al. 2012, ApJ 749, 55. "Anatomy of Helical Extragalactic Jets: The Case of S5 0836+710"
- 27) Perucho, M., et al. 2012, A&A 545, 65. "S5 0836+710: An FR II jet disrupted by the growth of a helical instability?"
- 28) Petrov, L. 2012, MNRAS 419, 1097. "The EVN Galactic Plane Survey - EGaPS"
- 29) Piner, B. G., et al. 2012, ApJ 758, 84. "Relativistic Jets in the Radio Reference Frame Image Database. II. Blazar Jet Accelerations from the First 10 Years of Data (1994-2003)"
- 30) Pushkarev, A. B. & Kovalev, Y. Y. 2012, A&A 544, 34. "Single-epoch VLBI imaging study of bright active galactic nuclei at 2 GHz and 8 GHz"

- 31) Romero-Canizales, C., Perez-Torres, M. A. & Alberdi, A. 2012, MNRAS 422, 510. "EVN observations of the farthest and brightest ULIRGs in the local Universe: the case of IRAS 23365+3604"
- 32) Romero-Canizales, C., et al. 2012, A&A 543, 72. "e-MERLIN and VLBI observations of the luminous infrared galaxy IC 883: a nuclear starburst and an AGN candidate revealed"
- 33) Rushton, A., et al. 2012, MNRAS 419, 3194. "A weak compact jet in a soft state of Cygnus X-1"
- 34) Rygl, K. L. J., et al. 2012, A&A 539, A79. "Parallaxes and proper motions of interstellar masers toward the Cygnus X star-forming complex. I. Membership of the Cygnus X region"
- 35) Schuh, H. & Behrend, D. 2012, Journal of Geodynamics 61, 68. "VLBI: A fascinating technique for geodesy and astrometry"
- 36) Souchay, J., et al. 2012, A&A 537, 99. "The second release of the Large Quasar Astrometric Catalog (LQAC-2)"
- 37) Surcis, G., et al. 2012, A&A 541, 47. "EVN observations of 6.7 GHz methanol maser polarization in massive star-forming regions"
- 38) Suyu, S. H., et al. 2012, ApJ 750, 10. "Disentangling Baryons and Dark Matter in the Spiral Gravitational Lens B1933+503"
- 39) Wu, Z., Jiang, D. R. & Gu, M. 2012, MNRAS 424, 2733. "The radio structure of ultra-high-energy synchrotron-peak BL Lacs"
- 40) Yang, J., et al. 2012, MNRAS 419, 74. "The radio core and jet in the broad absorption-line quasar PG 1700+518"
- 41) Yang, J., et al. 2012, MNRAS 426, 66. "Very long baseline interferometry detection of the Galactic black hole binary candidate MAXI J1836-194"
- 42) Zuther, J., Fischer, S. & Eckart, A. 2012, A&A 543, 57. "Compact radio emission from $z \sim 0.2$ X-ray bright AGN"

Single-Dish

- 1) Ackermann M., et al. 2012, ApJ 751, 159. "Multi-wavelength Observations of Blazar AO 0235+164 in the 2008-2009 Flaring State"
- 2) Brand J., et al. 2012, A&A 547, 85. "Molecular gas and stars in the translucent cloud MBM18 (LDN1569)"
- 3) D'Ammando F., et al. 2012, MNRAS 426, 317. "SBS 0846+513: a new gamma-ray-emitting narrow-line Seyfert 1 galaxy"
- 4) De Lotto, B. & Magic Collaboration 2012, Journal of Physics: Conference Series Volume 375 Issue

5 id. 052021. "The MAGIC telescopes: performance, results and future perspectives"

5) Donnarumma, I. & AGILE Team 2012, Journal of Physics: Conference Series Volume 355 Issue 1 id. 012004. "A review of the multiwavelength studies on the blazars detected by AGILE"

6) Fok T. K.T., et al. 2012, ApJ 760, 65. "Maser Observations of Westerlund 1 and Comprehensive Considerations on Maser Properties of Red Supergiants Associated with Massive Clusters"

7) Foschini, L., et al. 2012, A&A 548, 106. "Radio-to-gamma-ray Monitoring of the Narrow-Line Seyfert 1 Galaxy PMN J0948+0022 from 2008 to 2011"

8) Giommi, P., et al. 2012, A&A 541, 160. "Simultaneous Planck, Swift, and Fermi observations of X-ray and gamma-ray selected blazars"

9) Hayashida M., et al. 2012, ApJ 754, 114. "The Structure and Emission Model of the Relativistic Jet in the Quasar 3C 279 Inferred from Radio to High-energy gamma-Ray Observations in 2008-2010"

10) Landau, S. J., et al. 2012, Astroparticle Physics 35, 377. "Space-time variation of the electron-to-proton mass ratio in a Weyl model"

11) Lindfors, E. & MAGIC Collaboration 2012, Journal of Physics: Conference Series Volume 355 Issue 1 id. 012003. "Recent results from MAGIC observations of AGN"

12) Raiteri C. M., et al. 2012, A&A 545, 48. "Variability of the blazar 4C 38.41 (B3 1633+382) from GHz frequencies to GeV energies"

13) Richter, S. & Spanier, F. 2012, International Journal of Modern Physics: Conference Series Volume 8, 392. "A spatially resolved SSC Shock-In-Jet Model"

14) Righini S., et al. 2012, MNRAS 426, 2107. "A 20 GHz bright sample for DEC > +72d - I. Catalogue"