

2014 - 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.

NOTE: Orienti et al. (2014) uses both Single-Dish and VLBI data.

VLBI

- 1) Aleksic, J., et al. 2014, *Science* 346, 1080. "Black hole lightning due to particle acceleration at subhorizon scales"
- 2) Asada, K., et al. 2014, *ApJ* 781, 2. "Discovery of Sub- to Superluminal Motions in the M87 Jet: An Implication of Acceleration from Sub-relativistic to Relativistic Speeds"
- 3) Azulay, R., et al. 2014, *A&A* 561, 38. "Radio detection of the young binary HD 160934"
- 4) Bartkiewicz, A., Szymczak, M. & van Langevelde, H. J. 2014, *A&A* 564, 110. "European VLBI Network observations of 6.7 GHz methanol masers in clusters of massive young stellar objects"
- 5) Bietenholz, M. F. 2014, *PASA* 31, 2. "VLBI Constraints on Type I b/c Supernovae"
- 6) Blossfeld, M., Seitz, M. & Angermann, D. 2014, *Journal of Geodesy* 88, 45. "Non-linear station motions in epoch and multi-year reference frames"
- 7) Bobylev, V. V., & Bajkova, A. T. 2014, *MNRAS* 441, 142. "The local standard of rest from data on young objects with account for the Galactic spiral density wave"
- 8) Bosy, J. 2014, *Pure and Applied Geophysics* 171, 783 . "Global, Regional and National Geodetic Reference Frames for Geodesy and Geodynamics"
- 9) Cao, H. -M., et al. 2014, *A&A* 563, 111. "VLBI observations of the radio quasar J2228+0110 at $z = 5.95$ and other field sources in multiple-phase-centre mode"
- 10) Chomiuk, L., et al. 2014, *Nature* 514, 339. "Binary orbits as the driver of gamma-ray emission and mass ejection in classical novae"
- 11) Deane, R. P., et al. 2014, *Nature* 511, 57. "A close-pair binary in a distant triple supermassive black hole system"
- 12) Du, Y., et al. 2014, *ApJ* 782, 38. "Very Long Baseline Interferometry Measured Proper Motion and Parallax of the gamma-Ray Millisecond Pulsar PSR J0218+4232"
- 13) Gabanyi, K. E., et al. 2014, *MNRAS* 443, 1509. "A single radio-emitting nucleus in the dual AGN candidate NGC 5515"

- 14) Gordon, D., et al. 2014, Earth on the Edge: Science for a Sustainable Planet - IAG 25th General Assembly of the International Union of Geodesy and Geophysics, International Association of Geodesy Symposia 139,185. Ed.: Rizos, C., Willis, P. "The Construction of ICRF2 and Its Impact on the Terrestrial Reference Frame"
- 15) Hada, K., et al. 2014, ApJ 788, 165. "A Strong Radio Brightening at the Jet Base of M 87 during the Elevated Very High Energy Gamma-Ray State in 2012"
- 16) King, M. A. & Watson, C. S. 2014, Geophysical Journal International 199, 1161. "Geodetic vertical velocities affected by recent rapid changes in polar motion"
- 17) Kirsten, F., et al. 2014, A&A 565, 43. "Precision astrometry of pulsars and other compact radio sources in the globular cluster M15"
- 18) Lambert, S. 2014, A&A 570, 108 . "Comparison of VLBI radio source catalogs"
- 19) Marti-Vidal, I. & Marcaide, J. M. 2014, A&A 561, 40. "Limit to the radio emission from a putative central compact source in SN1993J"
- 20) Mezcuca, M., et al. 2014, ApJ 785, 121. "Revealing the Nature of the ULX and X-Ray Population of the Spiral Galaxy NGC 4088"
- 21) Molera Calves, G., et al. 2014, A&A 564, 4. "Observations and analysis of phase scintillation of spacecraft signal on the interplanetary plasma"
- 22) Moscadelli, L. & Goddi, C. 2014, A&A 566, 150. "A multiple system of high-mass YSOs surrounded by disks in NGC 7538 IRS1. Gas dynamics on scales of 10-700 AU from CH₃OH maser and NH₃ thermal lines"
- 23) Paragi, Z., et al. 2014, ApJ 791, 2. "Probing the Active Massive Black Hole Candidate in the Center of NGC 404 with VLBI"
- 24) Parijskij, Yu. N., et al. 2014, MNRAS 439, 2314. "Observations of the $z = 4.514$ radio galaxy RC J0311+0507"
- 25) Pavlovskaya, N. S. & Titov, O. A. 2014, ARep 58, 563. "The accuracy with which coordinates of radio telescopes can be estimated using VLBI observations"
- 26) Perez-Torres, M. A., et al. 2014, ApJ 792, 38. "Constraints on the Progenitor System and the Environs of SN 2014J from Deep Radio Observations"
- 27) Pollet, A., et al. 2014, Journal of Geodesy 88, 1095. "Comparison of individual and combined zenith tropospheric delay estimations during CONT08 campaign"
- 28) Reid, M. J. & Honma, M. 2014, ARA&A 52, 339. "Microarcsecond Radio Astrometry"
- 29) Romero-Canizales, C., et al. 2014, MNRAS 440, 1067. "The nature of supernovae 2010O and 2010P in Arp 299 - II. Radio emission"

- 30)** Seitz, M., Steigenberger, P., & Artz, T. 2014, Earth on the Edge: Science for a Sustainable Planet - IAG 25th General Assembly of the International Union of Geodesy and Geophysics, International Association of Geodesy Symposia 139, 215. Edited by: Rizos, C., Willis, P. "Consistent Adjustment of Combined Terrestrial and Celestial Reference Frames"
- 31)** Surcis, G., et al. 2014, A&A 563, 30. "The magnetic field at milliarcsecond resolution around IRAS 20126+4104"
- 32)** Tilanus, R. P. J., et al. 2014, arXiv:1406.4650. "Future mmVLBI Research with ALMA: A European vision"
- 33)** Tornatore V., et al. 2014, In: Earth on the Edge: Science for a Sustainable Planet, IAG Symposia 139, C. Rizos, P. Willis, Pascal (Eds), ISBN 978-3-642-37221-6 (Print), ISSN 978-3-642-37222-3 (Online), pp. 247-252. "Direct VLBI observations of Global Navigation Satellite System signals"
- 34)** van der Horst, A. J., et al. 2014, MNRAS 444, 3151. "A comprehensive radio view of the extremely bright gamma-ray burst 130427A"
- 35)** Varenus, E., et al. 2014, A&A 566, 15. "The radio core structure of the luminous infrared galaxy NGC 4418. A young clustered starburst revealed?"
- 36)** Zhang, Z. & Liu, X. 2014, AdSpR 54, 1563. "A VLBI baseline post-adjustment approach for station velocity estimation in Eurasian continent"

Single-Dish

- 1)** Ackermann, M., et al. 2014, ApJ 786, 157. "Multifrequency Studies of the Peculiar Quasar 4C +21.35 During the 2010 Flaring Activity"
- 2)** Aleksic, J., et al. 2014, A&A 569, 46. "MAGIC gamma-ray and multi-frequency observations of flat spectrum radio quasar PKS 1510-089 in early 2012"
- 3)** Cosmovici, C. B., et al. 2014, Planetary and Space Science 96, 22 . "Search for the 22 GHz water maser emission in selected comets"
- 4)** D'Ammando F., et al. 2014, MNRAS 438, 3521. "Multiwavelength observations of the gamma-ray-emitting narrow-line Seyfert 1 PMN J0948+0022 in 2011"
- 5)** Orienti, M., et al. 2014, MNRAS 444, 3040. "Exploring the multiband emission of TXS 0536+145: the most distant gamma-ray flaring blazar"