

## 2016 - 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) Akiyama, K. & Johnson, M. D. 2016, ApJ 824, 3. "Interstellar Scintillation and the Radio Counterpart of the Fast Radio Burst FRB 150418"
- 2) Akiyama, K., et al. 2016, ApJ 823, 26. "EVN Observations of HESS J1943+213: Evidence for an Extreme TeV BL Lac Object"
- 3) Altamimi, Z., et al. 2016, J. Geophys. Res. Solid Earth 121, 6109. "ITRF2014: A new release of the International Terrestrial Reference Frame modeling nonlinear station motions"
- 4) An, T., et al. 2016, PASJ 68, 77. "VLBI observations of flared optical quasar CGRaBS J0809+5341"
- 5) Bachmann, S., et al. 2016, Journal of Geodesy 90, 631. "IVS contribution to ITRF2014"
- 6) Bartkiewicz, A., Szymczak, M. & van Langevelde, H. J. 2016, A&A 587, 104. "European VLBI Network imaging of 6.7 GHz methanol masers"
- 7) Beltrán, M. T. & de Wit, W. J. 2016, A&ARv 24, 6. "Accretion disks in luminous young stellar objects"
- 8) Biggs, A.,D., et al. 2016, MNRAS 462, 2819. "Parsec-scale H I absorption structure in a low-redshift galaxy seen against a compact symmetric object"
- 9) Boccardi, B., et al. 2016, A&A 585, 33. "The stratified two-sided jet of Cygnus A. Acceleration and collimation"
- 10) Bondi, M., et al. 2016, A&A 588, 102. "Unveiling the radio counterparts of two binary AGN candidates: J1108+0659 and J1131-0204"
- 11) Bruni, G., et al. 2016, AN 337, 180. "Fast outflows in broad absorption line quasars and their connection with CSS/GPS sources"
- 12) Burke-Spolaor, S., et al. 2016, ApJ 826, 223. "Limits on Fast Radio Bursts from Four Years of the V-FASTR Experiment"
- 13) Coppejans, R., et al. 2016, MNRAS 463, 3260. "On the nature of bright compact radio sources at  $z > 4.5$  "
- 14) Coppejans, R., et al. 2016, MNRAS 459, 2455. "What are the megahertz peaked-spectrum

sources?"

- 15) Covino, S. & Gotz, D. 2016, *Astronomical & Astrophysical Transactions* 29, 205. "Polarization of prompt and afterglow emission of Gamma-Ray Bursts"
- 16) Duev, D. A., et al. 2016, *A&A* 593, 34. "Planetary Radio Interferometry and Doppler Experiment (PRIDE) technique: A test case of the Mars Express Phobos fly-by"
- 17) Frey, S., et al. 2016, *MNRAS* 455, 2058. "Four hot DOGs in the microwave"
- 18) Giroletti, M., et al. 2016, *A&A* 593, 16. "FRB 150418: clues to its nature from European VLBI Network and e-MERLIN observations"
- 19) Gomez, J. L., et al. 2016, *ApJ* 817, 96. "Probing the Innermost Regions of AGN Jets and Their Magnetic Fields with RadioAstron. I. Imaging BL Lacertae at 21 Microarcsecond Resolution"
- 20) Hees, A., et al. 2016, *Universe* 2, 30. "Tests of Lorentz Symmetry in the Gravitational Sector"
- 21) Kraszewska, K., Jagoda & M., Rutkowska, M. 2016, *Acta Geophysica*, 64, 1495. "Tectonic Plate Parameters Estimated in the International Terrestrial Reference Frame ITRF2008 Based on SLR Stations"
- 22) Le Bail, K., et al. 2016, *AJ* 151, 79. "IVS Observation of ICRF2-Gaia Transfer Sources"
- 23) Le Poncin-Lafitte, C., Hees A. & Lambert, S. 2016, *Phys. Rev. D* 94, 125030. "Lorentz symmetry and very long baseline interferometry"
- 24) Madzak, M., et al. 2016, *Journal of Geodesy* 90, 1237. "High-frequency Earth rotation variations deduced from altimetry-based ocean tides".
- 25) Mertens, F., et al. 2016, *A&A* 595, 54. "Kinematics of the jet in M 87 on scales of 100-1000 Schwarzschild radii"
- 26) Orienti, M., et al. 2016, *Galaxies* 4, 26. "Flaring  $\gamma$ -Ray Emission from High Redshift Blazars"
- 27) Plank, L., et al. 2016, *MNRAS* 455, 343. "On the estimation of a celestial reference frame in the presence of source structure"
- 28) Radcliffe, J. F., et al. 2016, *A&A* 587, 85. "Multi-source self-calibration: Unveiling the microJy population of compact radio sources"
- 29) Reid, M. J., et al. 2016, *ApJ* 823, 77. "A Parallax-based Distance Estimator for Spiral Arm Sources"
- 30) Romero-Canizales, C., et al. 2016, *ApJ* 832, 10. "The TDE ASASSN-14li and Its Host Resolved at Parsec Scales with the EVN"
- 31) Russell, T. D., et al. 2016, *MNRAS* 460, 3720. "The reproducible radio outbursts of SS Cygni"

- 32)** Schindelegger, M., et al. 2016, *Surv Geophys* 37, 643. "The Global S1 Tide in Earth's Nutation"
- 33)** Soja, B., et al. 2016, *Journal of Geodesy* 90, 1311. "Determination of a terrestrial reference frame via Kalman filtering of very long baseline interferometry data"
- 34)** Straal, S. M., et al. 2016, *ApJ* 822, 117. "HESS J1943+213: A Non-classical High-frequency-peaked BL Lac Object"
- 35)** Szymczak, M., et al. 2016, *MNRAS* 459, 56. "Discovery of periodic and alternating flares of the methanol and water masers in G107.298+5.639"
- 36)** Tornatore, V., Tanır Kayıkçı E., & Roggero, M. 2016, *Adv. Space Res.* 58, 2742. " Comparison of ITRF2014 station coordinate input time series of DORIS, VLBI and GNSS"
- 37)** Tseng, C., et al. 2016, *ApJ* 833, 288. "Structural Transition in the NGC 6251 Jet: an Interplay with the Supermassive Black Hole and Its Host Galaxy"
- 38)** Wielgosz, A., Brzezinski, A. & Bohm, S. 2016, *Artificial Satellites* 51, 135. "Complex Demodulation in Monitoring Earth Rotation by VLBI: Testing the Algorithm by Analysis of Long Periodic EOP Components"
- 39)** Wielgosz, A., Tercjak, M. & Brzezinski, A. 2016, *Reports on Geodesy and Geoinformatics* 101, 1 "Testing impact of the strategy of VLBI data analysis on the estimation of Earth Orientation Parameters and station coordinates"
- 40)** Yang, J., et al. 2016, *MNRAS* 462, 66. "No apparent superluminal motion in the first-known jetted tidal disruption event Swift J1644+5734"