EVN publications 2019

- **Journal Articles**

1. Wei Zhao, Xiao-Yu Hong, Tao An, Jun Yang: *The jet of FSRQ PKS 1229−02 and its misidentification as a γ-ray AGN*, 2019, Research in Astronomy and Astrophysics, 19, id.179 (**EH003**)
2. Jack F. Radcliffe, Robert J. Beswick, A. P. Thomson, Michael A. Garrett, Peter D. Barthel, Thomas W. B. Muxlow: *An insight into the extragalactic transient and variable microJy radio sky across multiple decades*, 2019, Monthly Notices of the Royal Astronomical Society, 490, 4024-4039 (**EG078, GG053**)
3. P. Atri, J. C. A. Miller-Jones, A. Bahramian, R. M. Plotkin, P. G. Jonker, G. Nelemans, T. J. Maccarone, G. R. Sivakoff, A. T. Deller, S. Chaty, M. A. P. Torres, S. Horiuchi, J. McCallum, T. Natusch, C. J. Phillips, J. Stevens, S. Weston: *Potential kick velocity distribution of black hole X-ray binaries and implications for natal kicks*, 2019, Monthly Notices of the Royal Astronomical Society, 489, 3116-3134 (**EM101**)
4. M. J. Reid, K. M. Menten, A. Brunthaler, X. W. Zheng, T. M. Dame, Y. Xu, J. Li, N. Sakai, Y. Wu, K. Immer, B. Zhang, A. Sanna, L. Moscadelli, K. L. J. Rygl, A. Bartkiewicz, B. Hu, L. H. Quiroga-Nuñez, H. J. van Langevelde: *Trigonometric Parallaxes of High-mass Star-forming Regions: Our View of the Milky Way*, 2019, The Astrophysical Journal, 885, article id. 131 (Based on VLBA/VERA/**EVN**/LBA data)
5. K. É. Gabányi, S. Frey, S. Satyapal, A. Constantin, R. W. Pfeifle: *Very long baseline interferometry observation of the triple AGN candidate J0849+1114*, 2019, Astronomy and Astrophysics, 630, id.L5 (**RS09B**)
6. C. Spingola, J. P. McKean, D. Massari, L. V. E. Koopmans: *Proper motion in lensed radio jets at redshift 3: A possible dual super-massive black hole system in the early Universe*, 2019, Astronomy and Astrophysics, 630, id.A108 (**GP030**)
7. D. S. MacMillan, A. Fey, J. M. Gipson, D. Gordon, C. S. Jacobs, H. Krásná, S. B. Lambert, Z. Malkin, O. Titov, G. Wang, M. H. Xu: *Galactocentric acceleration in VLBI analysis. Findings of IVS WG8*, 2019, Astronomy and Astrophysics, 630, id.A93 (Based on VLBA/**EVN**/VERA data)
8. J. A. Paice, P. Gandhi, P. A. Charles, V. S. Dhillon, T. R. Marsh, D. A. H. Buckley, M. M. Kotze, A. Beri, D. Altamirano, M. J. Middleton, R. M. Plotkin, J. C. A. Miller-Jones, D. M. Russell, J. Tomsick, W. Díaz-Merced, R. Misra: *Puzzling blue dips in the black hole candidate Swift J1357.2 - 0933, from ULTRACAM, SALT, ATCA, Swift, and NuSTAR*, 2019, Monthly Notices of the Royal Astronomical Society, 488, 512-524 (**RM010**)
9. Suma Murthy, Raffaella Morganti, Tom Oosterloo, Robert Schulz, Dipanjan Mukherjee, Alexander Y. Wagner, Geoffrey Bicknell, Isabella Prandoni, Aleksandar Shulevski: *Feedback from low-luminosity radio galaxies: B2 0258+35*, 2019, Astronomy and Astrophysics, 629, id.A58 (**ES070**)
10. P. Castangia, G. Surcis, A. Tarchi, A. Caccianiga, P. Severgnini, R. Della Ceca: *Water masers in Compton-thick AGN. II. The high detection rate and EVN observations of <ASTROBJ>IRAS 15480-0344</ASTROBJ>*, 2019, Astronomy and Astrophysics, 629, id.A25 (**EC047**)
11. B. Marcote, Y. Maan, Z. Paragi, A. Keimpema: *Probing the origin of the off-pulse emission from the pulsars B0525+21 and B2045-16*, 2019, Astronomy and Astrophysics, 627, id.L2 (**EM127**)
12. M. Olech, M. Szymczak, P. Wolak, R. Sarniak, A. Bartkiewicz: *6.7 GHz variability characteristics of new periodic methanol maser sources*, 2019, Monthly Notices of the Royal Astronomical Society, 486, 1236-1254 (**EB040, EB052, EO014**)
13. P. Hartley, N. Jackson, D. Sluse, H. R. Stacey, H. Vives-Arias: *Strong lensing reveals jets in a sub-microJy radio-quiet quasar*, 2019, Monthly Notices of the Royal Astronomical Society, 485, 3009-3023 (**EJ016A, EJ016B**)
14. J. W. T. Hessels, L. G. Spitler, A. D. Seymour, J. M. Cordes, D. Michilli, R. S. Lynch, K. Gourdji, A. M. Archibald, C. G. Bassa, G. C. Bower, S. Chatterjee, L. Connor, F. Crawford, J. S. Deneva, V. Gajjar, V. M. Kaspi, A. Keimpema, C. J. Law, B. Marcote, M. A. McLaughlin, Z. Paragi, E. Petroff, S. M. Ransom, P. Scholz, B. W. Stappers, S. P. Tendulkar: *FRB 121102 Bursts Show Complex Time-*

Frequency Structure, 2019, The Astrophysical Journal, 876, id.L23 (**RP024,RP026**)

15. B. Marcote, K. Nimmo, O. S. Salafia, Z. Paragi, J. W. T. Hessels, E. Petroff, R. Karuppusamy: *Resolving the Decades-long Transient FIRST J141918.9+394036: An Orphan Long Gamma-Ray Burst or a Young Magnetar Nebula?*, 2019, The Astrophysical Journal, 876, id.L14 (**RM015**)
16. Z. X. Li, Z. Z. Wu, Y. J. Chen, L. Chen, M. F. Gu, L. G. Mi: *The Radio Properties for BL Lac Object S5 2007+777*, 2019, Acta Astronomica Sinica, 60, id. 20 (**EZ028???**-paper not open access)
17. Shuangjing Xu, Bo Zhang, Mark J. Reid, Xingwu Zheng, Guangli Wang: *Comparison of Gaia DR2 Parallaxes of Stars with VLBI Astrometry*, 2019, The Astrophysical Journal, 875, id. 114, (Based on VLBA/VERA/**EVN**/LBA data)
18. T. M. Bocanegra-Bahamón, G. Molera Calvés, L. I. Gurvits, G. Cimò, D. Dirkx, D. A. Duev, S. V. Pogrebenko, P. Rosenblatt, S. Limaye, L. Cui, P. Li, T. Kondo, M. Sekido, A. G. Mikhailov, M. A. Kharinov, A. V. Ipatov, W. Wang, W. Zheng, M. Ma, J. E. J. Lovell, J. N. McCallum: *Venus Express radio occultation observed by PRIDE*, 2019, Astronomy and Astrophysics, 624, id.A59 (**V0427, V0429, V0430, V0501, V0323**)
19. G. Ghirlanda, O. S. Salafia, Z. Paragi, M. Giroletti, J. Yang, B. Marcote, J. Blanchard, I. Agudo, T. An, M. G. Bernardini, R. Beswick, M. Branchesi, S. Campana, C. Casadio, E. Chassande-Mottin, M. Colpi, S. Covino, P. D'Avanzo, V. D'Elia, S. Frey, M. Gawronski, G. Ghisellini, L. I. Gurvits, P. G. Jonker, H. J. van Langevelde, A. Melandri, J. Moldon, L. Nava, A. Perego, M. A. Perez-Torres, C. Reynolds, R. Salvaterra, G. Tagliaferri, T. Venturi, S. D. Vergani, M. Zhang: *Compact radio emission indicates a structured jet was produced by a binary neutron star merger*, 2019, Science, 363, 968-971 (**GG084, RG009, EP105**)
20. S. E. Motta, R. P. Fender: *A connection between accretion states and the formation of ultrarelativistic outflows in a neutron star X-ray binary*, 2019, Monthly Notices of the Royal Astronomical Society, 483, 3686-3699 (Using data from the 1999 VLBA/**EVN**/LBA campaign; Fig. 2)
21. Krisztina Perger, Sándor Frey, Krisztina É. Gabányi: *Is There a Blazar Nested in the Core of the Radio Galaxy 3C 411?*, 2019, The Astrophysical Journal, 873, id.61 (**EP104**)
22. E. Varenius, J. E. Conway, F. Batejat, I. Martí-Vidal, M. A. Pérez-Torres, S. Aalto, A. Alberdi, C. J. Lonsdale, P. Diamond: *The population of SNe/SNRs in the starburst galaxy Arp 220. A self-consistent analysis of 20 years of VLBI monitoring*, 2019, Astronomy and Astrophysics, 623, id.A173 (**GL015, GL021, GL026, GD017, GD021, GC028, GC031**)
23. G. Surcis, W. H. T. Vlemmings, H. J. van Langevelde, B. Hutawarakorn Kramer, A. Bartkiewicz: *EVN observations of 6.7 GHz methanol maser polarization in massive star-forming regions. IV. Magnetic field strength limits and structure for seven additional sources*, 2019, Astronomy and Astrophysics, 623, id.130 (**ES072**)
24. A. V. Plavin, Y. Y. Kovalev, L. Y. Petrov: *Dissecting the AGN Disk-Jet System with Joint VLBI-Gaia Analysis*, 2019, The Astrophysical Journal, 871, id. 143 (Used earlier published VLBA and **EVN** maps)
25. Hong-Min Cao, Sándor Frey, Krisztina É. Gabányi, Jun Yang, Lang Cui, Xiao-Yu Hong, Tao An: *The loud and the quiet: searching for radio counterparts of two radio-weak BL Lac candidates with VLBI*, 2019, Monthly Notices of the Royal Astronomical Society, 482, L34-L39 (**EC061**)
26. Jun Yang, Tao An, Fang Zheng, Willem A. Baan, Zsolt Paragi, Prashanth Mohan, Zhongli Zhang, Xiang Liu: *A radio structure resolved at the deca-parsec scale in the radio-quiet quasar PDS 456 with an extremely powerful X-ray outflow*, 2019, Monthly Notices of the Royal Astronomical Society, 482, 1701-1705 (**EY024A**)
27. Gelu M. Nita, Aard Keimpema, Zsolt Paragi: *Statistical Discrimination of RFI and Astronomical Transients in 2-bit Digitized Time Domain Signals*, 2019, Journal of Astronomical Instrumentation, 8, id. 1940008 (Used **RP024** data)
28. N. V. Gusinskaia, J. W. T. Hessels, N. Degenaar, A. T. Deller, J. C. A. Miller-Jones, A. M. Archibald, C. O. Heinke, J. Moldón, A. Patruno, J. A. Tomsick, R. Wijnands: *Quasi-simultaneous radio and X-ray observations of Aql X-1 : probing low luminosities*, 2019, Monthly Notices of the Royal Astronomical Society, doi:10.1093/mnras/stz3420 (Used published **EVN** data)

- **Other**

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2. L. Vega-García, A. P. Lobanov, M. Perucho, G. Bruni, E. Ros, J. M. Anderson, I. Agudo, R. Davis, J. L. Gómez, Y. Y. Kovalev, T. P. Krichbaum, M. Lisakov, T. Savolainen, J. A. Zensus: *Multiband RadioAstron space VLBI imaging of the jet in quasar S5 0836+710*, 2019, arXiv e-prints (**GL038**)
3. P. Mohan, T. An, J. Yang: *The nearby luminous transient AT2018cow: a magnetar formed in a sub-relativistically expanding non-jetted explosion*, 2019, arXiv e-prints (**RY007, EY033, EM137**)
4. Michael F. Bietenholz, Norbert Bartel: *Recent VLBI Results on SN 1986J and the Possibility of FRBs Originating from Inside the Expanding Ejecta of Supernovae*, 2019, arXiv e-prints (Based on earlier **EVN** and US VLBI network observations)
5. A. Gemes, K. É. Gabányi, S. Frey, T. An, Z. Paragi, A. Moór: *High-resolution radio imaging of the gamma-ray blazar candidate J1331+2932*, 2019, arXiv e-prints (**RSG08)**
6. P. Benke, S. Frey, K. É. Gabányi, L. I. Gurvits, Z. Paragi, T. An, E. Kun, P. Mohan, D. Cseh, Gy. Mező: *The rise and fall of a binary AGN candidate: the story of PSO J334.2028+1.4075*, 2019, arXiv e-prints (**RSF08**)
7. K. É. Gabányi, S. Frey, Z. Paragi, H. Cao, T. An, L. I. Gurvits, T. Sbarrato, K. Perger, K. Rozgonyi, Gy. Mező: *Three little radio galaxies in the early Universe*, 2019, arXiv e-prints (**EC052, EC054**)
8. Zsolt Paragi, Antonio Chrysostomou, Cristina Garcia-Miro: *SKA-VLBI Key Science Programmes*, 2019, arXiv e-prints (**e-EVN** as SKA pathfinder; SKA-VLBI)
9. B. Marcote, Z. Paragi: *Localizations of Fast Radio Bursts on milliarcsecond scales*, 2019, arXiv e-prints (FRB VLBI results with the **EVN**)
10. Anish Roshi, L. D. Anderson, E. Araya, D. Balser, W. Brisken, C. Brum, D. Campbell, S. Chatterjee, E. Churchwell, J. Condon, J. Cordes, F. Cordova, Y. Fernandez, J. Gago, T. Ghosh, P. F. Goldsmith, C. Heiles, D. Hickson, B. Jeffs, K. M. Jones, J. Lautenbach, B. M. Lewis, R. S. Lynch, P. K. Manoharan, S. Marshall, R. Minchin, N. T. Palliyaguru, B. B. P. Perera, P. Perillat, N. Pinilla-Alonso, D. J. Pisano, L. Quintero, S. Raizada, S. M. Ransom, F. O. Fernandez-Rodriguez, C. J. Salter, P. Santos, M. Sulzer, P. A. Taylor, F. C. F. Venditti, A. Venkataraman, A. K. Virkki, A. Wolszczan, M. Womack, L. F. Zambrano-Marin: *Arecibo Observatory in the Next Decade*, 2019, Bulletin of the American Astronomical Society, 51, id. 244 (Arecibo as part of the **EVN**)
11. G. Tuccari, W. Alef, S. Dornbusch, R. Haas, K. -Å. Johansson, L. La Porta, H. Rottmann, A. L. Roy, J. Wagner, M. Wunderlich: *DBBC3 Towards the BRAND EVN Receiver*, 2019, Proceedings of the 24th European VLBI Group for Geodesy and Astrometry Working Meeting, p. 27-30 (VLBI backend for the **EVN**)
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13. Francisco Colomer, Mark Kettenis, Robert M. Campbell, Patrick Charlot, Arpad Szomoru: *Geodetic Capabilities at the JIVE SFXC Correlator*, 2019, International VLBI Service for Geodesy and Astrometry 2018 General Meeting Proceedings: "Global Geodesy and the Role of VGOS - Fundamental to Sustainable Development, p. 117-120 (**EVN** SFXC geo-VLBI developments)
14. Jonas Flygare, Miroslav Pantaleev, John Conway, Michael Lindqvist, Leif Helldner, Magnus Dahlgren, Rüdiger Haas, Peter Forkman: *Ultra-wideband Feed Systems for the EVN and SKA - Evaluated for VGOS*, 2019, International VLBI Service for Geodesy and Astrometry 2018 General Meeting Proceedings: "Global Geodesy and the Role of VGOS - Fundamental to Sustainable Development, p. 42-46 (Broadband **EVN** developments)
15. Jonas Flygare, Miroslav Pantaleev, John Conway, Michael Lindqvist, Rüdiger Haas: *Design Trade-offs in Feed Systems for Ultra-wideband VLBI Observations*, 2019, International VLBI Service for Geodesy and Astrometry 2018 General Meeting Proceedings: "Global Geodesy and the Role of VGOS - Fundamental to Sustainable Development, p. 37-41 (Broadband **EVN** developments)
16. F. Colomer: *What can VLBI do for your research? The EVN and JIVE*, 2019, Highlights on Spanish Astrophysics X, p. 290-295 (**EVN** and user support)

17. S. Murthy, R. Morganti, T. Oosterloo, R. Schulz, D. Mukherjee, A. Y. Wagner, G. Bicknell, I. Prandoni, A. Shulevski: *VizieR Online Data Catalog: B2 0258+35 VLA and VLBI HI absorption spectra (Murthy+, 2019)*, 2019, VizieR Online Data Catalog, (From **EVN** data; **ES070**)
18. G. Surcis, W. H. T. Vlemmings, H. J. van Langevelde, B. Hutawarakorn Kramer, A. Bartkiewicz: *VizieR Online Data Catalog: 6.7GHz methanol maser polarization in MSFRs IV (Surcis+, 2019)*, 2019, VizieR Online Data Catalog, (From **EVN** data; **ES072**)
19. Sándor Frey, Davide Lena, Peter G. Jonker, Krisztina É. Gabányi, Zsolt Paragi: *VLBI Non-detection of a Candidate Dual AGN in a Galaxy Merger*, 2019, Research Notes of the American Astronomical Society, 3, id. 1 (**RSF09**)

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2. Nobuyuki Sakai, Takumi Nagayama, Hiroyuki Nakanishi, Nagito Koide, Tomoharu Kurayama, Natsuko Izumi, Tomoya Hirota, Toshihiro Yoshida, Katsunori M. Shibata, Mareki Honma: *Vertical structure and kinematics of the Galactic outer disk*, 2019, Publications of the Astronomical Society of Japan, doi:10.1093/pasj/psz125 (Cites **EVN** results)
3. E. Benítez, I. Cruz-González, J. M. Rodríguez-Espinosa, O. González-Martín, C. A. Negrete, L. Gutiérrez, E. Jiménez-Bailón, D. Ruschel-Dutra, L. F. Rodríguez, L. Loinard, L. Binette: *Multiwavelength observations of the triple-peaked AGN Mrk 622*, 2019, Monthly Notices of the Royal Astronomical Society, 490, 5521-5537 (Mentions **EVN Data Archive**)
4. Bidisha Bandyopadhyay, Fu-Guo Xie, Neil M. Nagar, Dominik R. G. Schleicher, Venkatessh Ramakrishnan, Patricia Arévalo, Elena López, Yaherlyn Diaz: *Resolving accretion flows in nearby active galactic nuclei with the Event Horizon Telescope*, 2019, Monthly Notices of the Royal Astronomical Society, 490, 4606-4621 (Theoretical predictions for **EVN** observations, Fig. 3)
5. Trey V. Wenger, Dana S. Balser, L. D. Anderson, T. M. Bania: *Metallicity Structure in the Milky Way Disk Revealed by Galactic H II Regions*, 2019, The Astrophysical Journal, 887, id.114 (Cites **EVN** results)
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7. E. E. Nokhrina, L. I. Gurvits, V. S. Beskin, M. Nakamura, K. Asada, K. Hada: *M87 black hole mass and spin estimate through the position of the jet boundary shape break*, 2019, Monthly Notices of the Royal Astronomical Society, 489, 1197-1205 (Stating NOT using **EVN** data)
8. Zhen Zhao, Tao An, Baoqiang Lao: *VLBI Network SIMulator: An Integrated Simulation Tool for Radio Astronomers*, 2019, Journal of Korean Astronomical Society, 52, 207-216 (work based on **EVN Calculator** and **EVN User Guide**)
9. Richard M. Crutcher, Athol J. Kemball: *Review of Zeeman Effect Observations of Regions of Star Formation K Zeeman Effect, Magnetic Fields, Star formation, Masers, Molecular clouds*, 2019, Frontiers in Astronomy and Space Sciences, 6, id. 66 (Review, citing a number of **EVN** papers)
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14. E. Platts, A. Weltman, A. Walters, S. P. Tendulkar, J. E. B. Gordin, S. Kandhai: *A living theory catalogue for fast radio bursts*, 2019, Physics Reports, 821, 1-27 (Cites **EVN** results)
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16. B. Bandyopadhyay, D. R. G. Schleicher, N. Nagar, F. G. Xie, V. Ramakrishnan: *Accretion models for LLAGNs: Model Parameter Estimation with M87 as an example*, 2019, Boletin de la Asociacion Argentina de Astronomia La Plata Argentina, 61, 237-239 (Mentioning EHT/GMVA/**EVN** synergy in LLAGN research)
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18. A. Alonso-Herrero, S. García-Burillo, M. Pereira-Santaella, R. I. Davies, F. Combes, M. Vestergaard, S. I. Raimundo, A. Bunker, T. Díaz-Santos, P. Gandhi, I. García-Bernete, E. K. S. Hicks, S. F. Hönig, L. K. Hunt, M. Imanishi, T. Izumi, N. A. Levenson, W. Maciejewski, C. Packham, C. Ramos Almeida, C. Ricci, D. Rigopoulou, P. F. Roche, D. Rosario, M. Schartmann, A. Usero, M. J. Ward: *Nuclear molecular outflow in the Seyfert galaxy NGC 3227*, 2019, Astronomy and Astrophysics, 628, id.A65 (Cites **EVN** results; Fig. 4)
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22. E. Petroff, J. W. T. Hessels, D. R. Lorimer: *Fast radio bursts*, 2019, Astronomy and Astrophysics Review, 27, id. 4 (Review, cites **EVN** results)
23. Francesca Panessa, Ranieri Diego Baldi, Ari Laor, Paolo Padovani, Ehud Behar, Ian McHardy: *The origin of radio emission from radio-quiet active galactic nuclei*, 2019, Nature Astronomy, 3, 387-396 (Cites **EVN** results; Fig. 1)
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