Maciek Wielgus

Complete list of papers. Updated: November 2025

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143. *Polarized emission of orbiting hot-spots near Sagittarius A*: effects of electromagnetic interaction*, Tlemissov, A., Tursunov, A. & **Wielgus, M.**, submitted to A&A,
142. *Locating the missing large-scale emission in the jet of M87* with short EHT baselines*, Georgiev, B. et al. + EHTC, submitted to A&A,
141. *Telling apart black holes and naked singularities with trajectories of massive particles*, Karakonstantakis, A., Kluźniak, W. & **Wielgus, M.**, submitted to MNRAS, arXiv:2509.24114,
140. *Ring Asymmetry and Spin in M87**, Bernshteyn, V. et al. + EHTC, submitted to ApJ,
139. *Full-polarization millimeter wavelength variability of Sagittarius A* during the 2018 EHT campaign*, Albentosa-Ruiz, E., Washington, J., Marchili, N., Marti-Vidal, I., Goddi, C., **Wielgus, M.**, et al. + EHTC, submitted to A&A,
138. *Novel Polarimetric Analysis of Sub-Millimeter Near Horizon Flaring Episode in M87**, Emami, R., et al., submitted to ApJ, arXiv:2504.04695,
137. *Semi-analytic studies of accretion disk and magnetic field geometry in M 87**, Saurabh, **Wielgus, M.**, Tursunov, A., et al., accepted in A&A, arXiv:2508.11760,
136. *Revisiting 3C 279 jet morphology with space VLBI at 26 microarcsecond resolution*, Toscano, T., Gomez, J., Zhao, G.-Y., Fuentes, A., Savolainen, T., Roeder, J., **Wielgus, M.**, et al., accepted in A&A,
135. *Probing jet base emission of M87* with the 2021 Event Horizon Telescope Observations*, Saurabh, et al. + EHTC, accepted in A&A,
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133. *Horizon-scale variability of M87* from 2017–2021 EHT observations*, EHTC, accepted in A&A, arXiv:2509.24593,
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129. *First polarization study of the M87 jet and active galactic nuclei at submillimeter wavelengths with ALMA*, Goddi, C., et al. + EHTC, A&A 699, A265 (2025), arXiv:2505.10181,
128. *Origin of the ring ellipticity in the black hole images of M87**, Dahale, R., et al. + EHTC, A&A 699, A279 (2025), arXiv:2505.10333,
127. *Dynamical Inference from Polarized Light Curves of Sagittarius A**, Ricarte, A., Conroy, N., **Wielgus, M.**, et al., ApJ 987, 152 (2025), arXiv:2504.01114,
126. *Helical magnetic field structure in 3C 273. A Faraday rotation analysis using multi-frequency polarimetric VLBA data*, Toscano, T., et al., A&A 698, A210 (2025), arXiv:2412.18250,
125. *Fundamental physics opportunities with future ground-based mm/sub-mm VLBI arrays*, Ayzenberg, D., et al., Living Reviews in Relativity 28, 4 (2025), arXiv:2312.02130,
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