

## **Summary**

Refereed Journal Publications            38 papers (4 first author papers and 34 Co-author papers)

Non-refereed Journal Publications 3 papers (1 first author paper, 2 Co-author papers)

Online Publication List

[Google Scholar \(tiny.cc/kota6\\_goolge86\)](https://tiny.cc/kota6_goolge86)

[SAO/NASA ADS \(http://tiny.cc/kota6\\_ads68\)](http://tiny.cc/kota6_ads68)

## **Refereed Journal Publications**

38. Event Horizon Telescope Collaboration, Issaoun, S., Wielgus, M., Jorstad, S.,..., [Moriyama, K.](#) et al. "Resolving the Inner Parsec of the Blazar J1924–2914 with the Event Horizon Telescope", *ApJ*, 934, 145
37. Farah, J., Galison, P., Akiyama, K., "Selective Dynamical Imaging of Interferometric Data", *ApJ*, 930, L18
36. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W.,..., [Moriyama, K.](#) et al. "First Sagittarius A\* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way", *ApJ*, 930, L12
35. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W.,..., [Moriyama, K.](#) et al. "First Sagittarius A\* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole", *ApJ*, 930, L16
34. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W.,..., [Moriyama, K.](#) et al. "First Sagittarius A\* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration", *ApJ*, 930, L13
33. Event Horizon Telescope Collaboration, Broderick, A.E., Gold, R., Georgiev, B.,..., [Moriyama, K.](#) et al. "Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI", *ApJ*, 930, L21
32. Event Horizon Telescope Collaboration, Wielgus, M., Marchili, N., Martí-Vidal, I.,..., [Moriyama, K.](#) et al. "Millimeter Light Curves of Sagittarius A\* Observed during the 2017 Event Horizon Telescope Campaign", *ApJ*, 930, L19
31. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W.,..., [Moriyama, K.](#) et al. "First Sagittarius A\* Event Horizon Telescope Results. VI. Testing the Black Hole Metric", *ApJ*, 930, L17
30. Event Horizon Telescope Collaboration, Georgiev, B., Pesce, D. W., Broderick, A. E.,..., [Moriyama, K.](#) et al. "A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows", *ApJ*, 930, L20
29. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W.,..., [Moriyama, K.](#) et al. "First Sagittarius A\* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass", *ApJ*, 930, L15
28. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W.,..., [Moriyama, K.](#) et al. "First Sagittarius A\* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole", *ApJ*, 930, L14
27. Event Horizon Telescope Collaboration, Cho, I., Zhao, G. Y., Kawashima, T.,..., [Moriyama, K.](#) et al. "The Intrinsic Structure of Sagittarius A\* at 1.3 cm and 7 mm", *ApJ*, 926 (2), 108

26. Event Horizon Telescope Collaboration, Satapathy, K., Psaltis, D., Özel, F., ..., Moriyama, K. et al. "The variability of the black hole image in M87 at the dynamical timescale", *ApJ*, 925, 13 (2022)
25. Event Horizon Telescope Collaboration, Kocherlakota, P., Rezzolla, L., Falcke, H., ... Moriyama, K. et al. "Constraints on black-hole charges with the 2017 EHT observations of M87", *Physical Review D*, 103, 10
24. Narayan, R., Palumbo, D. C. M., Johnson, M. D., ..., Moriyama, K. et al. "The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole", *ApJ*, 912:L35 (2021)
23. Algaba, J. C., Anczarski, J., Asada, K., ..., Moriyama, K. et al. "Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign", *ApJ*, 911:L11 (2021)
22. Akiyama, K., Algaba, J. C., Alberdi, A., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. VII. Polarization of the Ring", *ApJ*, 910:L12 (2021)
21. Akiyama, K., Algaba, J. C., Alberdi, A., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon", *ApJ*, 910:L13 (2021)
20. Goddi, C., Marti-Vidal, I., Messias, H., ..., Moriyama, K. et al. "Polarimetric properties of Event Horizon Telescope targets from ALMA", *ApJ*, 910:L14 (2021)
19. Kawashima, T., Toma, K., Kino, M., Akiyama, K., Nakamura, M., Moriyama, K., "A Jet-bases Emission Model of the EHT2017 Image of M87", *ApJ*, 909, 168 (2021)
18. Psaltis, D., Medeiros, L., Christian, P., ..., Moriyama, K. et al. "Gravitational test beyond the first post-Newtonian order with the shadow of the M87 black hole", *Physical Review Letters*, 125, 141104, (2020)
17. Wielgus, M., Akiyama, K., Blackburn, L., ..., Moriyama, K. et al. "Monitoring the Morphology of M87\* in 2009–2017 with the Event Horizon Telescope", *ApJ*, 901, 67 (2020)
16. Kim, JY., Krichbaum, TP., Broderick, AE., ..., Moriyama, K. et al. "Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution", *A&A*, 640, A69, (2020)
15. Gold, R., Broderick, AE., Younsi, Z., ..., Moriyama, K. et al. "Verification of Radiative Transfer Schemes for the EHT", *ApJ* 897 (2), 148 (2020)

Relativistic Magnetohydrodynamic Code Comparison Project", *ApJS*, 243, 26, (2019)

10. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole", *ApJ*, 875, L6, (2019)
9. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring", *ApJ*, 875, L5, (2019)
8. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole", *ApJ*, 875, L4, (2019)
7. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. III. Data Processing and Calibration", *ApJ*, 875, L3, (2019)
6. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. II. Array and Instrumentation", *ApJ*, 875, L2, (2019)
5. Event Horizon Telescope Collaboration, Akiyama, K., Alberdi, A., Alef, W., ..., Moriyama, K. et al. "First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole", *ApJ*, 875, L1, (2019)
4. Mizumoto, M., Moriyama, K., Ebisawa, K., Mineshige, S., Kawanaka, N., & Tsujimoto, M., "Can the

relativistic light bending model explain X-ray spectral variations of Seyfert galaxies?”, PASJ, 70, 42, (2018)

3. Moriyama, K., Mineshige, S., & Takahashi, R. H., “High-frequency Quasi-periodic Light Variations from Arc-shaped Gas Clouds Falling onto a Black Hole”, ApJ, 850, 1, (2017)

2. Moriyama, K., & Mineshige, S., “New method for probing Kerr space-time based on imaging observation of in-falling gas blob”, PASJ, 68, 3, (2016)

1. Moriyama, K., & Mineshige, S., “New method for black-hole spin measurement based on flux variation from an infalling gas ring”, PASJ, 67, 6, (2015)

### **Non-refereed Journal Publications**

41. Moriyama, K., Akiyama, K., Cho, I. et al. SMILI v0.2.0, Zenodo, 10.5281/zenodo.6522933, 2022

40. Okino, K., Akiyama, K., Asada, K., ..., Moriyama, K. et al, "Collimation of the relativistic jet in the quasar 3C 273", arXiv:2112.12233

39. Akiyama, K., Moriyama, K., Cho, I. et al. SMILI: Sparse Modeling Imaging Library for Interferometry, Zenodo, 10.5281/zenodo.3459837, 2019