Abhishek V. Joshi

avjoshi2@illinois.edu | avjoshi21.github.io

Education

PhD, Physics, University of Illinois Urbana-Champaign — 2019–
Advisor: Professor Charles Gammie — GPA: 3.9/4.0

BS, Engineering Physics, University of Illinois Urbana-Champaign — 2015–2018
Summa Cum Laude — GPA: 3.83/4.0

Publications

Lists: NASA ADS, Google Scholar, ORCID.

10. **Joshi, A. V.**, Prather, B. S., Chan, C., Wielgus, M., et al. 2024, ApJ, 972, 135
Circular Polarization of Simulated Images of Black Holes

9. Event Horizon Telescope Collaboration, , Akiyama, K., Alberdi, A., et al., incl. **Joshi, A. V.** 2024, ApJL, 964, L26
First Sagittarius A Event Horizon Telescope Results. VIII. Physical Interpretation of the Polarized Ring*

8. Event Horizon Telescope Collaboration, , Akiyama, K., Alberdi, A., et al., incl. **Joshi, A. V.** 2023, ApJL, 957, L20
First M87 Event Horizon Telescope Results. IX. Detection of Near-horizon Circular Polarization

7. Conroy, N. S., Bauböck, M., Dhruv, V., et al., incl. **Joshi, A. V.** 2023, ApJ, 951, 46
Rotation in Event Horizon Telescope Movies

6. **Joshi, A. V.**, Rosofsky, S. G., Haas, R., & Huerta, E. A. 2023, PhRvD, 107, 064038
Numerical relativity higher order gravitational waveforms of eccentric, spinning, non-precessing binary black hole mergers

5. Event Horizon Telescope Collaboration, , Akiyama, K., Alberdi, A., et al., incl. **Joshi, A. V.** 2022, ApJL, 930, L16
First Sagittarius A Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole*

4. Event Horizon Telescope Collaboration, , Akiyama, K., Alberdi, A., et al., incl. **Joshi, A. V.** 2022, ApJL, 930, L12
First Sagittarius A Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way*

3. Wong, G. N., Prather, B. S., Dhruv, V., et al., incl. **Joshi, A. V.** 2022, ApJS, 259, 64
PATOKA: Simulating Electromagnetic Observables of Black Hole Accretion

2. Marszewski, A., Prather, B. S., **Joshi, A. V.**, Pandya, A., et al. 2021, ApJ, 921, 17
Updated Transfer Coefficients for Magnetized Plasmas

1. Pandya, A., Chandra, M., **Joshi, A. V.**, & Gammie, C. F. 2018, ApJ, 868, 13
Numerical Evaluation of the Relativistic Magnetized Plasma Susceptibility Tensor and Faraday Rotation Coefficients

Awards

Talks

Service

Mentoring

Outreach

Teaching

Press