

## **Photon Ring Test of the Kerr Metric: Results and Computational Challenges**

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We have forecast that a space interferometry mission could test that Kerr nature of M87\* with sub-sub-percent precision by measuring the shape of the “photon ring” produced by extreme gravitational lensing. I will discuss the motivation, theory, and results, before mentioning the computational challenges that lie ahead in making this exciting prospect a reality.