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First Event Horizon Telescope Results-ApJL Focus Issue





The April 2019 Focus Issue of *The Astrophysical Journal Letters* (volume 875, number 1) contains six articles devoted to the world's first ultra-high angular resolution images of radio emission from a supermassive black hole. A collaboration of eight observatories, named the Event Horizon Telescope (*EHT*), succeeded in imaging a supermassive black hole in the center of galaxy Messier 87 in the Virgo galaxy cluster. The image on the left, from the EHT, shows the shadow of the black hole and the bright ring formed as light bends in the intense gravity around the black hole.

The *open-access articles* are available to everyone. Here is the list:

- "First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole by the Event Horizon Telescope Collaboration et al., doi: https://doi.org/10.3847/2041-8213/ab0ec7.
- "First M87 Event Horizon Telescope Results. II. Array and Instrumentation by the Event Horizon Telescope Collaboration et al., doi: https://doi.org/10.3847/2041-8213/ab0c96.
- "First M87 Event Horizon Telescope Results. III. Data Processing and Calibration by the Event Horizon Telescope Collaboration et al., doi: https://doi.org/10.3847/2041-8213/ab0c57.
- "First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole by the Event Horizon Telescope Collaboration et al., doi: https://doi.org/10.3847/2041-8213/ab0e85.
- "First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring by the Event Horizon Telescope Collaboration et al., doi: https://doi.org/10.3847/2041-8213/ab0f43.
- "First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole by the Event Horizon Telescope Collaboration et al., doi: https://doi.org/10.3847/2041-8213/ab1141.

The Astrophysical Journal Letters, a scientific journal of significant original research, is a publishing partnership of the American Astronomical Society and the Institute of Physics.

See Also:

Event Horizon Telescope

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