



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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Mapping the disc-corona geometry in accreting black holes

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In the past decade, spectral-timing measurements of accreting black holes have revealed reverberation light travel echoes between the X-ray emitting corona, and the accretion disc. Together, XMM-Newton, NuSTAR, Swift and NICER have measured light echoes from size scales ranging from the broad line region down to the ISCO. In this talk, I will give an overview of the progress over the past decade on disc reverberation mapping, and will conclude with a look to the future, with new high throughput missions, and complimentary constraints from high-resolution X-ray spectroscopy missions, like XRISM and Athena.

Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

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