



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

8-13 September 2019
CNR/INAF Research Area, Bologna, Italy

Contribution ID: 286

Type: **Invited**

Multi-wavelength observations of tidal disruption flares

Monday, 9 September 2019 14:30 (25 minutes)

The tidal disruption of a star by a massive black hole is a rare event that results in a spectacular flare of electromagnetic radiation. Visible from radio to X-ray wavelengths, tidal disruption flares are a unique probe to study massive black holes and the nucleus of their host galaxies. The advent of optical transient surveys has accelerated this field; the increased detection rate has fueled a large number of (often unexpected) discoveries. However the origin of optical emission from tidal disruption events is currently unknown; observations at X-ray wavelengths will be key to solve this puzzle.

Topic

Multi-messenger and transient astronomy

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Session Classification: MULTI-MESSENGER AND TRANSIENT ASTRONOMY