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Tracking Jet Evolution in Black Hole X-ray Binaries: First Results from the PITCH-BLACK Survey

Relativistic jets launched from accreting compact objects are thought to play an important role in our Universe, influencing large-scale processes such as galaxy evolution and star formation. However, the connection between their properties and those of the accretion flow remains poorly understood. Multi-wavelength time-domain observations of black hole X-ray binaries now offer a new avenue to study this connection in detail, as different wavelengths probe different components of the system, in turn making it possible to track material as it moves from inflow to outflow. Recently, we launched the PITCH-BLACK survey, a first-of-its-kind large global observing program designed to yield multi-wavelength time-domain observations spanning across an entire X-ray binary outburst. In this talk, I will present the first results of the PITCH-BLACK survey, including sub-millimetre time-domain and polarimetric observations of Swift J1727.8-1613.

Contribution

Oral talk

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