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Type : **Contributed talk**

Investigating Relativistic Jets in X-ray Binaries through Multi-Wavelength Timing Studies

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Relativistic jets launched from accreting compact objects are thought to play an important role in the 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 provide a new avenue to study this connection in detail. By probing different components of the system at different wavelengths, these observations allow us to trace the evolution of gas from inflow to outflow. Recently, we launched a first-of-its-kind observational program designed to obtain multi-wavelength time-domain observations spanning an entire X-ray binary outburst. In this talk, I will present the first results from this program, including recent ALMA and VLT observations of BW Cir (GS 1354-64).

Did you give a contributed talk at CASCA 2026?

No

If you are selected for a poster, would you be interested in giving a short flash talk on your work?

Yes

What is your career level?

PhD

Which keyword describes the area of focus of this talk?

Black holes

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