



# - RAY ASTRONOMY 2019

*Current Challenges and New Frontiers in the Next Decade*

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## The BH XRB researches highlighted with Insight-HXMT

*Friday, 13 September 2019 14:08 (2 minutes)*

Black hole X-ray binaries show variability in flux on timescales of milliseconds to hours. It can probe the inner region of the accretion disk around BH. Insight-HXMT, the first Chinese X-ray astronomical satellite, was successfully launched on 2017 June 15. Its broad energy band (1-250 keV), large area in the hard energy band ( $\sim 5000 \text{ cm}^2$  20-250 keV), and good time resolution provides us an exciting opportunity to study the spectral-timing properties of the X-ray binary systems especially at a higher energy. Here we will present the timing properties of new transients such as MAXI J1535-571, MAXI J1820+070, and MAXI J1348-630, and known transients like GRS 1915+105 observed with Insight-HXMT.

### Topic

Multi-messenger and transient astronomy

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