



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: 111

Type: **Contributed**

Fast IR/X-ray observations from the MAXI new black-transients

Monday, September 9, 2019 3:25 PM (15 minutes)

Simultaneous O-IR / X-ray high-time resolution observations are one of the most powerful tools to study jets in Low-mass X-ray binaries. In this talk I present the latest results regarding fast-IR variability of the new black-hole transients which went in outburst between 2017 and today (e.g. MAXI J1535-571, MAXI J1820+070 and MAXI 1348-630). All these sources have been observed in IR (K band) with HAWK-I with simultaneous X-ray coverage (XMM-Newton/Nustar/Nicer) at different stages of their outburst. Evidence of QPOs in both were found for all sources in both bands. Moreover I will also show and compare the different CCF measured for these sources, discussing them in terms of models which try to explain fast O-IR variability in black-hole transients.

Topic

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Session Classification: MULTI-MESSENGER AND TRANSIENT ASTRONOMY