



# - RAY ASTRONOMY 2019

*Current Challenges and New Frontiers in the Next Decade*

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

*Monday, 9 September 2019 15:25 (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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