



# X-RAY ASTRONOMY 2019

*Current Challenges and New Frontiers in the Next Decade*

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## The AGN activity in merging galaxies observed in optical and X-ray waveband

*Friday, September 13, 2019 5:18 PM (2 minutes)*

We will present results from the MAGNA (Multiple AGN Activity) project focused on the detection and study of multiple supermassive black hole systems.

With the main goal of understanding the mechanisms that trigger the AGN in different stages of galaxy mergers, we compare the physical properties of merging galaxies hosting at least one AGN with isolated systems. Optical (SDSS) and X-ray (XMM and Chandra) data sets allowed us to detect and characterize an optically selected sample of merging systems at 20–100 kpc separation, by measuring the accretion rate, the nuclear absorption and (when possible) the BH mass. The talk will reflect on broader implications of these findings when considering the current hydrodynamical and cosmological simulations of merging BH.

### Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

### Affiliation

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**Session Classification:** POSTER SESSION