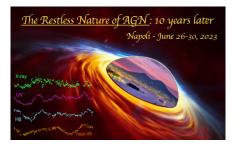
The restless nature of AGN: 10 years later



Contribution ID : 34

Type : Contributed talk

Multi-messenger observations of supermassive black hole binaries

giovedì 29 giugno 2023 17:15 (15)

Supermassive black hole binaries are a natural end product of galaxy mergers and should be common in galactic nuclei. They produce bright electromagnetic emission and can be identified as quasars with periodic variability in time-domain surveys. They are also promising sources of low-frequency GWs soon to be detected by pulsar timing arrays (PTAs) with PTAs and time-domain surveys probing the same population of binaries. I will discuss the combination of time-domain observations with PTA data in a multi-messenger stream, the parameter space of binaries for which this combination is possible and the advantages of multi-messenger observations (e.g., improved parameter estimation).

Primary author(s): CHARISI, Maria (Vanderbilt University)
Presenter(s): CHARISI, Maria (Vanderbilt University)
Session Classification: Extreme variability: CL AGN, TDEs and binary SMBHs