



Contribution ID: 319

Type: oral

Multi-Messenger Astrophysics with THESEUS

Tuesday, 24 September 2024 14:34 (16 minutes)

Recent breakthrough discoveries in multi-messenger astronomy (MMA) include the first identifications of gravitational wave and neutrino cosmological sources, such as active galactic nuclei and gamma-ray bursts. Despite the still limited number of identified sources so far, the relevance of gamma/X-ray observations in MMA is already evident. More identifications are expected over the next years, but it will only be during the second half of the 2030s that statistically significant samples of multi-messenger sources will become available, thanks to the anticipated one order of magnitude increase in sensitivity of next-generation neutrino and gravitational wave detectors. By that time, gamma/X-ray surveyors like THESEUS will play a crucial role in independently detecting and accurately localizing the high-energy counterparts, enabling multi-band follow-up campaigns and detailed source characterization of unprecedented large samples of multi-messenger sources.

Primary author: STRATTA, Giulia (Goethe University Frankfurt)

Presenter: STRATTA, Giulia (Goethe University Frankfurt)

Session Classification: Astrophysical Multimessenger techniques & observations