

## Third Gravi-Gamma Workshop: The multimessenger view of the black hole life cycle



Contribution ID: 28

Type: **Invited talk**

### **Very High Energy facilities in the context of Electromagnetic Detectors and future prospects for Multimessenger science**

*Friday, 7 October 2022 15:30 (30 minutes)*

The recent detection Gamma Ray Bursts (GRB) by Imaging Atmospheric Cherenkov Telescopes opened up the possibility of Multi Messenger (MM) detection of neutron star merger events and the associated GRBs with Gravitational Waves (GW) and Very High Energy (VHE) gamma rays.

New facilities with enhanced sensitivities which are under construction or will start construction in the near future will overlap their operations with the next Observing runs of the present generation or future projects of GW interferometric detectors creating the concrete chance for a combined detection.

This talk will discuss the science potentials and the prospects with the next generation of instruments of a joint GW and VHE gamma ray detection.

**Primary author:** GERMANI, Stefano (Istituto Nazionale di Fisica Nucleare)

**Presenter:** GERMANI, Stefano (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Electromagnetic detectors and future prospects for multimessenger science and contributed talks