

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



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Estimation of detection probabilities of Gamma-Ray Burst and Gravitational Waves multimessenger events produced by distruptive binary mergers

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In this presentation I will analyse the coalescence events of compact binary objects, in particular the mergers of the black hole-neutron star type, with multimessenger approach. Studying the short Gamma-Ray Burst electromagnetic counterpart I used a recent model to make predictions about both the synchrotron and synchrotron self-Compton afterglow emission and I will discuss its possibile detection in the high energy band using the Fermi-LAT and CTA instruments.

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Session Classification: Stellar and Intermediate black holes