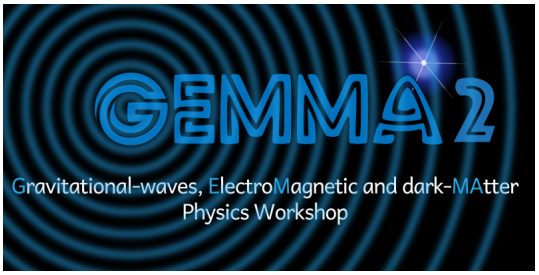

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Multi messenger view of transients

Monday, 16 September 2024 14:00 (55 minutes)

Over the last two decades astronomy has established the first informative connections between different cosmic messengers, exemplified by the association of electromagnetic emission and the gravitational wave signal produced by the binary neutron star merger GW170817. Milt-messenger astronomy provides crucial insights into the physics of these sources by combining independent messengers. GW170817 demonstrated the potential of this approach to constrain the properties of progenitor neutron stars and of the ejecta and relativistic jets they produce when they merge, and to use these sources to constrain cosmological parameters. Future events and currently undetected sources may significantly advance this research field. I will review the current advancements and future perspectives in multi-messenger observations.

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