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Multi-messenger studies with GRANDMA

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Multi-messenger studies have been vitalized by GW170817 in which diverse messengers - photons and gravitational waves - provide a new picture of the collision of two neutron stars. In this talk, I will first review briefly how coherent analysis of the messengers can not only better constrain the astrophysical scenarios at play, but also further knowledge on the cosmology and nuclear physics side. In a second half, I will present the Global Rapid Advanced Network Devoted to the Multi-messenger Addicts (GRANDMA, PI Sarah Antier), which aims to identify and characterize the electromagnetic counterparts of gravitational-wave sources. I will detail the consortium, its characteristics and public tools provided for time-domain astronomy. I will finish with a summary of our scientific achievements and future prospects for GRANDMA.

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