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Gravitational waves and Multi-messenger astronomy: the new exploration of the Universe

Friday 26 October 2018 11:30 (40 minutes)

The era of Gravitational Wave (GW) Astronomy started in 2015, with the first observation of GWs from the merger of a binary black hole system. Two years later, the detection of GWs from a binary neutron star merger and of its electromagnetic counterpart marked the birth of multi-messenger astronomy, opening a new chapter in the study of the universe. This talk will give an overview of the first scientific results of Advanced LIGO and Virgo and discuss what we learned from the first multi-messenger observations.

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