

## PHAROS Conference 2019: the multi-messenger physics and astrophysics of neutron stars



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### **GW170817: lessons from the observations of a binary neutron star merger**

The historically first detection of gravitational waves from a binary neutron star merger turned out to be a treasure trove for the dense matter physics, relativistic astrophysics, testing the theories of gravity and to emerging multi-messenger astronomy. I will summarize the LIGO/Virgo results related to GW170817 event, discuss implications of this observation and the future outlook.

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