



Canadian Association  
of Physicists

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## **(I) Multi-messenger astrophysics with gravitational waves**

*Tuesday, 8 June 2021 14:45 (20 minutes)*

In less than five years, the field of gravitational wave astronomy has grown from a groundbreaking first discovery to revealing new populations of stellar remnants through distant cosmic collisions. I'll summarize recent results from LIGO-Virgo and their wide-reaching implications, give an overview of the instrumentation of the current Advanced LIGO detectors, and discuss prospects for the future of multi-messenger astrophysics with gravitational wave detectors on Earth and in space.

**Primary author:** Dr MCIVER, Jess (The University of British Columbia)

**Presenter:** Dr MCIVER, Jess (The University of British Columbia)

**Session Classification:** TS4-4 Solar, cosmic, extragalactic neutrinos I (PPD Neutrino Physics and Beyond Symposium) / Neutrinos solaires, cosmiques et extragalactiques I (Symposium PPD sur la physique des neutrinos et au delà)

**Track Classification:** Symposia Day (PPD) - Neutrino Physics and Beyond