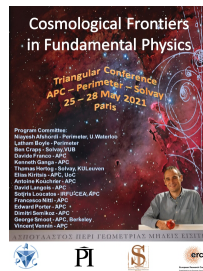


**Cosmological Frontiers in Fundamental Physics Triangular Conference :  
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## Overview of LIGO and Virgo observations during the science run O3a

*mardi 25 mai 2021 17:30 (40 minutes)*

Advanced LIGO and advanced Virgo conducted their third science run O3 between April 2019 and March 2020. So far, the observations of the first six months of O3 have been reported and published with the catalog GWTC-2.

We will provide an overview of the contents of GWTC-2, which includes 39 candidate gravitational wave events associated with compact binary mergers.

These observations give new insights into the population compact stars (black holes or neutron stars) in the Universe.

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**Classification de Session:** Second Session, Tuesday