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Type: **Talk**

Results from LIGO Virgo KAGRA Collaboration for last observing run

Wednesday, August 25, 2021 9:00 AM (30 minutes)

Third Observation (O3) run of Advanced LIGO and Advanced Virgo started in April 2019 and ended in March 2020; reaching sensitivities significantly better than those in the previous observing run. This talk will overview the published science results achieved during the O3 run, focusing on the catalog of the gravitational waves signals due to compact binary coalescences (GWTC-2) and on the main outcomes of follow-up investigations, e.g. tests of general relativity. Among gravitational waves signals reported in GWTC-2, a few have been associated to exceptional scientific case such as binary system with significantly asymmetric mass ratios (GW190412), intermediate-mass black holes (GW190521), neutron stars-black holes binary system (GW200105 and GW200115), these will be discussed.

In addition results from searches of gravitational waves due to other astrophysical sources including transient bursts, continuous waves, and stochastic background in O3 data will be reported.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

LIGO Virgo Collaboration

Is the speaker for that presentation defined?

Yes

Details

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Internet talk

Maybe

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