

Third Gravi-Gamma Workshop: The multimessenger view of the black hole life cycle



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Type: **Invited talk**

Search for gravitational waves associated with Fast Radio Bursts Detected by CHIME/FRB During the LIGO-Virgo Observing Run O3a

Thursday, 6 October 2022 17:00 (30 minutes)

We present the search for gravitational waves associated with fast radio bursts detected by the CHIME/FRB experiment during the LIGO-Virgo Observing Run O3a, from 1 April 2019 15:00 UTC - 1 October 2019 15:00 UTC. Targeted searches for GW events using both modelled compact-binary-coalescence and unmodelled searches were used. We will present results for the exclusion distances generated by the searches in comparison to the fast radio burst events' luminosity distances as well as upper limits on the total amount of energy released in gravitational waves for these events.

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Session Classification: Stellar and Intermediate black holes