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Low latency gravitational wave searches for prompt multimessenger followups

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The gravitational wave era has started with the detections of gravitational waves originated from the coalescences of black holes. This gives new challenges and interests to the multi-messenger approach, which aims to reach the extraordinary result of identifying the counterparts. In this talk, we review the gravitational wave low-latency algorithms used by the LIGO-Virgo collaboration. Those algorithms produce triggers within a few minutes of the arrival time at the detectors. The most significant triggers are shared with the electromagnetic partners (from radio to gamma-ray) as well as neutrino and high energy cosmic ray observatories.

Experimental Collaboration

LIGO-Virgo

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