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Searching for joint gravitational-wave and high energy neutrino events with LLAMA

Monday, 5 July 2021 18:35 (25 minutes)

Multi-messenger detections allow us to learn more about the astrophysical sources by probing different physics and also by guiding the astronomers more precisely with low latency follow-ups. We will present the statistically optimal methods for multi-messenger searches and summarize the joint gravitational-wave and high energy neutrino event searches' results of Low Latency Algorithm for Multi-messenger Astrophysics (LLAMA) with IceCube's neutrinos and LIGO/Virgo's public detections and announcements.

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Session Classification: Explosive Events Associated with Compact-Object Binary Mergers

Track Classification: Binaries: Explosive events associated with compact-object binary mergers