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Searching for joint gravitational-wave and high energy neutrino events with LLAMA DOGA VESKE, STEFAN COUNTRYMAN, Columbia University, YASMEEN ASALI, Yale University, ZSUZSA MARKA, Columbia University, IMRE BARTOS, University of Florida, SZABOLCS MARKA, Columbia University — 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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