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Observational-data rich future in multimessenger astrophysics

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With the proliferation new and more sensitive detector technologies, coincident observation of triggers for two or more messengers (gravitational-waves, electromagnetic, neutrinos) will become increasingly frequent. I will discuss implications and unmet needs for the observational-data rich future when low-latency subthreshold triggers will be publicly available for several messenger types and coincidences will be regularly observed. In this new era, proper statistical evaluation of coincidences will be a key requirement for confirming detection claims, commending additional observations, and enabling comprehensive multimessenger astronomy in general. In my talk joint observations of gravitational-waves and neutrinos and their follow-up will serve as a use case.

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