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Multi-messenger astrophysics in the gravitational-wave era

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The dawn of gravitational-wave (GW) astronomy in the last decade has propelled our understanding of many areas of astrophysics. Most notably, GW170817, the first binary neutron star merger observed in both GWs and electromagnetic (EM) waves, kickstarted the age of multi-messenger GW astronomy. With the onset of the LVK Collaboration's O4 and upcoming EM instruments, multi-messenger astrophysics has never so promising. I will review recent searches and results for multi-messenger counterparts to GW events, and describe challenges and prospects for future observations.

Submitted on behalf of a Collaboration?

No

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