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Overview of Advanced LIGO searches for unmodeled transients

JONAH KANNER, Caltech, LIGO SCIENTIFIC COLLABORATION, VIRGO COLLABORATION — Sources of gravitational wave transients may include some of the most energetic events in the universe, including mergers of neutron stars and/or black holes, the core-collapse of massive stars, and cosmic string cusps. A network of modern gravitational wave detectors, including Advanced LIGO and Advanced Virgo, might soon be capable of observing these sources. Separating these signals from detector noise requires specialized algorithms, which are run both in low-latency and on archived data. In this talk, we describe the all-time, all-sky search for unmodeled transients during the first observing run of Advanced LIGO.

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