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The all-sky search for short-duration gravitational-wave bursts with Advanced LIGO RYAN LYNCH, MIT, LIGO-VIRGO COLLABORATION COLLABORATION — Sources of gravitational-wave transients include some of the most energetic events in the universe. In addition to the merger of compact stellar remnants, sources may include the core-collapse of massive stars, neutron star glitches, and cosmic string cusps. Searches for this latter category of transients often make minimal assumptions regarding their exact waveform morphologies, and are thus referred to as unmodeled searches. A network of the Advanced LIGO gravitational-wave detectors recently completed its first scientific data collection run. In this talk, we describe the all-time, all-sky search for unmodeled gravitational-wave transients in Advanced LIGO data.

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