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Results and Prospects of the Search for Gravitational Waves from Neutron Star Binaries and Neutron Star-Black Hole Binaries

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The first observing run of the Advanced LIGO detectors took place from September 12, 2015 to January 19, 2016. In addition to binary black hole mergers, the LIGO Scientific Collaboration's searches for compact-object binaries also targets binary neutron stars and neutron star-black hole binaries. In this talk, I will give an overview of the results of the search for binary neutron star and neutron-star black hole mergers. I will discuss the sensitive volumes of the first observing run, the astrophysical implications of the non-detection of binaries containing neutron stars in this run, and the prospects for future observations.

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