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Astrophysical Sources, Analysis Methods and Current Results in LIGO's Quest for Gravitational Waves[1]

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The LIGO Scientific Collaboration has adopted a variety of data analysis techniques to target potential sources of gravitational waves, such as inspiraling binary systems, pulsars, transient bursts from core-collapse supernovae and the cosmological stochastic background. This talk provides an overview of these analysis methods and presents the most recent limits on the measurable rate of gravitational waves in LIGO.

[1]For the LIGO Scientific Collaboration