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Abstract for an Invited Paper
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Science results from LIGO observing runs

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We will report on the latest results obtained by the LIGO Scientific Collaboration in its searches for different kinds of gravitational wave signals in data collected by the LIGO detectors in the last two years. We have searched for signals originated by inspiraling binary systems and by rotating neutron stars; we also have looked for unmodelled transient signals and for a stochastic background. We will present direct observational upper limits arising from each of these searches. We will discuss the performance of different search methods in real data, in the presence with detector artifacts.

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