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Gravitational wave transient sources and what we learn from them

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The advent of advanced detectors truly opened the era of GW astronomy with the first signals from transient sources detected by Advanced LIGO and Advanced Virgo during the O1 and O2 runs. These include binary black hole mergers and the spectacular GW170817, the first signal from a binary neutron star coalescence and its associated electromagnetic counterparts. The talk will review the wealth of results provided by the sources reported to date and the prospects for the next observing runs.

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