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Tests of general relativity with LIGO-Virgo-KAGRA data

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The first three observing runs of the Advanced LIGO-Virgo-KAGRA detector network have led to the detection of about 90 compact binary coalescences, mergers of binaries of black holes or neutron stars. These observations have given us access to an otherwise uncharted regime of dynamical strong-field gravity. In this talk we briefly review the many tests of general relativity performed with these detections and the search for exotic behaviour which can be demonstrated by compact objects mimicking black holes.

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