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Testing general relativity with the latest gravitational-wave ringdown signals

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The post-merger stage of a binary black hole coalescence is known as “ringdown”, when the remnant settles into a stable state through the emission of quasi-normal modes. Analyzing ringdown signals from gravitational-wave events offers a powerful test of general relativity in the strong-field regime and provides an independent consistency check on the full waveform analysis. In this talk, I will present new results from the fourth LIGO-Virgo-KAGRA observing run, highlight particularly informative events, and discuss the unique insights obtained specifically from ringdown observations.

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