

A new phenomenological time-domain model of gravitational waveforms for tests of general relativity

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Current tests of general relativity with the LIGO-Virgo gravitational waves detections relies on using frequency-domain phenomenological models of gravitational waveforms. The design of tests varying parameters defined by their frequency can lead to ambiguity in the interpretation of the deviation measured. In this talk, I will present the first time-domain phenomenological model of gravitational waveforms, that notably includes the main radiation mode and precession effects. I will also mention the elaboration of agnostic tests of general relativity that we will implement.

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