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Disclosing the features of transient gravitational waves independently from waveform models

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A very general reconstruction and estimation of the gravitational wave features, i.e. not based on prior knowledge of the waveform models, is useful to catch unexpected characteristics of the signal. In addition, it can complement the analyses based on parametrized models of the detected emissions from compact binary coalescences. In fact, we know that parametrized models may not always accurately cover all the known possible variety of the emissions, such as orbital eccentricity, misaligned spins and post-merger signals from neutron star remnants. We will overview the un-modeled methods developed to characterize the waveforms and the comparison with modeled analyses in the case of the LIGO-Virgo signal catalog GWTC-1.

Summary

Disclosing the transient gravitational waves independently from waveform models

Primary author: Dr LAZZARO, Claudia

Co-author: LVC COLLABORATION

Presenter: Dr LAZZARO, Claudia

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