

Gravitational Wave Observations of Binary Black Hole Coalescences with LIGO/Virgo

Thursday, 30 August 2018 17:35 (20 minutes)

In this talk I will summarize the current astrophysical results from searching for binary black hole mergers in data taken from second generation gravitational wave observatories. I will focus on estimates of binary parameters found with Bayesian inference techniques and state-of-the art waveform models which describe the inspiral, merger and ringdown phases of these coalescences. I will illustrate that highly accurate and fast waveform models are critical for our understanding of these sources and will give an outlook on future challenges.

(on behalf of the LIGO and Virgo Scientific Collaborations)

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