

Waveform modelling for current and future gravitational wave detectors

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The talk reviews the goals and current status of the challenge to develop accurate models of gravitational wave signals, which can be used for matched-filter based data analysis in current and future gravitational wave detectors. I will highlight the main approaches to this problem, and discuss in some more detail the phenomenological waveforms program, which has produced waveforms that have been used by the LVK collaboration to analyse all gravitational wave events detected to date.

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