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The phenomenological waveforms program: challenges, recent results, and future prospects

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This talk reviews challenges in the modelling of the waveforms of coalescing compact binaries as the GW community prepares for the next generation of GW observatories, and the current status and future prospects for the phenomenological waveforms program. The talk reports in particular recent progress in modelling eccentric binaries, spin precession, the memory effect, and the LISA response.

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