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【461】LISA Parameter Estimation with Time Domain Waveforms

Wednesday 11 September 2024 17:00 (15 minutes)

Parameter estimation with full Bayesian inference remains one of the outstanding challenges for the LISA data analysis infraestructure. The current approach requires the development of approximate transfer functions that replicate the TDI response in the Fourier domain, posing a theoretical challenge for complex waveforms. In this work, we explore the use of waveforms in the time domain. We will present the status of current parameter estimation runs with a novel GPU implementation of the IMRPhenomT waveform family and the LISA response.

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