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Bayesian inference methods in cosmology with LISA standard sirens

jeudi 24 novembre 2022 16:45 (15 minutes)

One of the main scientific objectives of LISA is to probe the expansion rate of the Universe. In this talk, we examine the problem of measuring cosmological parameters through gravitational wave observations using LISA standard sirens. We discuss a Bayesian framework to do cosmological parameter inference with LISA dark and bright sirens, presenting forecasts based on simulated catalogs of extreme mass-ratio inspirals and massive black hole binaries having an observable electromagnetic counterpart.

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