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Constraining the SGWB from inflationary models with LISA

Early Universe dynamics beyond the standard single-field slow-roll paradigm may produce a Stochastic Gravitational Wave Background (SGWB) in the LISA band. In this talk, we will present recent advances from the LISA CosWP in creating a 'bank' of templates representing the SGWB produced in popular inflationary models. We adopt a recently developed data analysis pipeline to forecast the reconstructability of these templates and the constraints on the model parameters and discuss the implications of our forecast for inflationary model builders.

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