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Inflationary gravitational wave background with LISA

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I will discuss the current LISA Cosmology Working Group effort to initiate the first template-based analysis for Stochastic Gravitational Wave Background (SGWB) signals.

After introducing a databank to describe well-motivated signals from inflation, prototype their template-based searches, and forecast the constraints on the model parameters, I will examine how the signal reconstructions shed light on fundamental physics models.

I will also briefly comment on two related analysis with LISA on early universe phase-transitions and cosmic strings scenarios.

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