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Cosmological events on the stochastic background of inflationary gravitational waves

The effects of the cosmological phase transitions in the evolution of inflationary gravitational waves are reconsidered and normalized with the data from the late 2021 BICEP/Keck and Planck (BKP) joint data using a quite simple and easily executable method which can be easily modified to include the effects of cosmological events. The resulting energy density spectrum is obtained for the α -attractor models of inflation and the final spectrum is compared with the power-law integrated sensitivity curves of several upcoming detectors to test the potential detectability of the inflationary gravitational waves.

Email

tei.naulak@uohyd.ac.in

Affiliation

Government Kolasib College

Author: MALSAWMTLUANGI, N Presenter: MALSAWMTLUANGI, N Session Classification: Cosmology

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