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Stochastic Gravitational Wave Background and the Secrets of the Early Universe

Thursday, 22 January 2026 10:05 (35 minutes)

Gravitational waves offer a powerful probe of the early universe, providing insights into its dynamics and fundamental physics. This talk will explore the stochastic gravitational wave background (SGWB) and its potential origins, including signals detected in the NANOGrav 15-year dataset. I will discuss how hybrid inflation can generate topological defects, such as cosmic strings, and contribute to the SGWB, highlighting model-building approaches that link theory to observation. This talk aims to bridge theoretical insights with observational data.

Author: AFZAL, Adeela (JINR, Dubna, Russia)

Presenter: AFZAL, Adeela (JINR, Dubna, Russia)