ANALYSIS OF ANISOTROPIES OF COSMIC MICROWAVE BACKGROUND OBSERVATIONS

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Abstract

The cosmic microwave background (CMB) radiation, popularly known as the weak afterglow of the big-bang, provides precise measurements of cosmological parameters and helps understand physics of the early universe. At the end of three generations of satellite missions with completion of Planck, proposals of further sensitive future generation CMB experiments are being undertaken in India and globally. In this talk, I will discuss new analysis techniques of CMB signals using both the traditional (or non machine learning) and machine learning approaches that have been developed by my group. These methods can be employed in the analysis of observations of upcoming CMB missions for robust and accurate extraction of cosmological information.

Venue

PAMU Seminar Room

A.N. Kolmogorov Building, ISI, Kolkata

Date & Time

28 August, 2024
03:00 PM

Everyone is invited to attend