



Bose Colloquium



S. N. Bose National Centre for Basic Sciences

(An Autonomous Research Institute established under DST, GOI)

Title:

Tests of the foundations of 'standard' cosmological model

Abstract:

The remarkable success of recent cosmology in pinpointing a consistent concordance model relies on few foundational assumptions of homogeneity, isotropy of the universe, scale independence, etc. Increasingly precise cosmological observations, such as the exquisite measurements of the CMB sky from ESA Planck space mission, have opened the possibility of robust independent tests of these assumptions. I will present key results including those from my research program on this theme.

Speaker: Prof. Tarun Souradeep

Director, RRI

Short Biography of the Speaker:

Prof. Tarun Souradeep is the Director of Raman Research Institute, on Deputation leave as Senior Professor, IUCAA, Pune (since Aug 2019).

Prof. Souradeep obtained his M.Sc and Ph.D. (1995) in Cosmology from the IUCAA, Pune and subsequently did his postdoctoral studies at Canadian Institute for Theoretical Astrophysics and at Kansas State University.

His research area includes Cosmology – Cosmic Microwave Background (CMB), Large-Scale Structure in the Universe, Primordial cosmological perturbations from Inflation, Early Universe and applications of QFT in curved spacetime and Gravitational wave (GW) Physics & Astronomy etc.



21st JULY,
2023



4.00 PM



Silver Jubilee Hall



YouTube Link



Webinar Link

