

Centre for Strings, Gravitation and Cosmology presents

CHANDRASEKHAR LECTURE

21-CM COSMOLOGY: SCOPE AND PROSPECTS

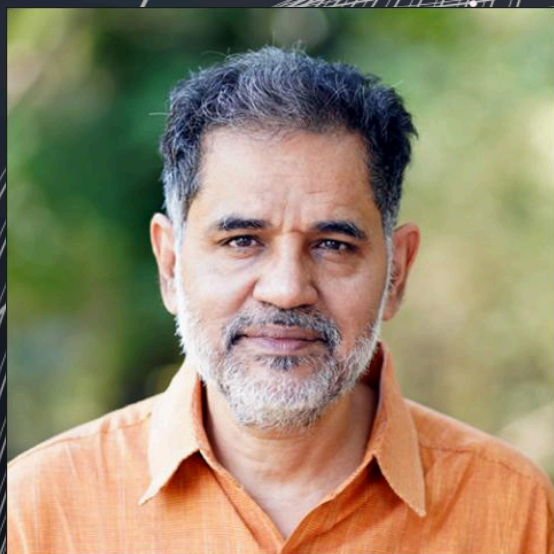
PROFESSOR SHIV SETHI

RAMAN RESEARCH INSTITUTE, BANGALORE

21-cm cosmology has come of age in the past twenty years. It is owing to advances in CMB anisotropy measurement and technologies in radio astronomy. There are multiple ongoing and planned experiments to detect the eras of cosmic dawn/epoch of reionization. In addition, the detection of 21-cm in emission at low redshifts enables complementary probes. I'll review the prospects of this proposed program with focus on both theoretical and observational progress.

December 12, 2024

4:00 PM IST



Shiv Sethi is presently a professor at the Raman Research Institute (RRI), Bangalore. He had completed his Ph.D. at Delhi University on the topic 'Phase transitions in the early universe, after which he worked as a postdoctoral fellow initially at the Inter-University Centre for Astronomy and Astrophysics (IUCAA) and later at the Institut d'Astrophysique de Paris (IAP). Prof. Sethi had joined the faculty of Harish Chandra Research Institute (HRI), Allahabad, and moved to Raman Research Institute (RRI), Bangalore. He is a visiting faculty at Carnegie-Mellon University, USA and at IIT Madras. He has worked on a wide range of issues in cosmology, elements of particle physics and radio astronomy with specific interest in structure formation in the universe, CMB anisotropies, early universe, primordial magnetic fields, nature of dark matter and 21-cm cosmology.

**VENUE : Central Lecture Theatre (CLT)
Indian Institute of Technology, Madras (IITM)**

