

**Theoretical Sciences Unit
Jawaharlal Nehru Center for Advanced
Scientific Research**

Jakkur P.O Bangalore 560 064



SEMINAR NOTICE

Speaker: -Dr. Siddhartha Lal
Associate Professor,
Department of Physical Sciences,
IISER Kolkata

Host: - Prof. Vidhyadhiraja NS
JNCASR

Title
Quantum Matter and the Age of Entanglement

Abstract:

There is great activity at present all over the world towards developing quantum technologies. But what is the basic physics that drives this activity? Why are we searching for novel quantum materials, and building noise-free quantum computers? Where does my research fit in with all of this? In presenting some answers, I will focus on how the concept of entanglement - a feature that is unique to the quantum world - of an interacting many-particle quantum system holds the key to next-generation quantum technologies. I will also offer some insights on results we have obtained recently on the entanglement encoded within a few different examples of strongly interacting quantum matter.

Date: 26thMay 2023(Friday)

Time: 02:30 pm (Coffee/Tea @ 02:20pm)

Venue: Kanada Auditorium

All are cordially invited.