S N BOSE NATIONAL CENTRE
FOR BASIC SCIENCES
Block JD, Sector III, Salt Lake, Kolkata 700 106

DEPARTMENTAL SEMINAR

Physics of Complex Systems

24th February,2023 **3.00 PM** **ONLINE / FERMION**

SPEAKER

Prof. Soumya Bera,
Professor, Dept. of Physics, IIT - Bombay

TITLE OF THE TALK

Many-body delocalization

ABSTRACT

Many-body localization (MBL) is a fascinating spatio-temporal phenomenon that is believed to exist in one-dimensional interacting fermion systems at strong enough disorder. One of the most important consequences of the MBL phase is that it can be described as an emergent integrable phase that has logarithmically slow entanglement propagation.

Within exact numerical calculation, I will show such claims are invalid, and rather the strong disorder phase shows a slow tendency toward thermalization.

HOST FACULTY

Dr. Arijit Haldar, Assistant Professor
DEPT. OF PHYSICS OF COMPLEX SYSTEMS

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