



**S N BOSE NATIONAL CENTRE
FOR BASIC SCIENCES**

Block JD, Sector III, Salt Lake, Kolkata 700 106

DEPARTMENTAL SEMINAR

Physics of Complex Systems

01st December, 2023

3.00 PM

ONLINE / FERMION

SPEAKER

**Dr. Kishor Bharti,
Research Scientist, IHPC@A*STAR, Singapore**

TITLE OF THE TALK

Graph-based approach to Self-testing via contextuality and Bell nonlocality

ABSTRACT

Self-testing is a quantum device certification protocol where one can infer the details of internal workings of a third-party device based on measurement statistics. I will discuss a graph theoretic approach to establish self-testing statements within the framework of contextuality and Bell nonlocality.

HOST FACULTY

**Dr. Manik Banik, Associate Professor
DEPT. OF PHYSICS OF COMPLEX SYSTEMS**
