



INDIAN STATISTICAL INSTITUTE
Theoretical Statistics and Mathematics Unit, Kolkata

Thesis Defense Seminar

Date: December 01, 2023
Time: 02:00 PM

VENUE:

L-infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

**Quantum symmetry in multigraphs and its
applications in physical models**

SPEAKER:

Sk Asfaq Hossai

Stat-Math Unit, ISI Kolkata

ABSTRACT:

In this talk, we define and analyse various notions of quantum symmetry in a directed or undirected multigraph with no isolated vertex. If the multigraph is simple (with or without loops) our notions coincide with the already existing notions of quantum symmetry given by Bichon and Banica. We also produce quantum symmetry in some mathematical and physical structures using quantum symmetry of the underlying graphs.

ALL ARE CORDIALLY INVITED