



INDIAN STATISTICAL INSTITUTE
Theoretical Statistics and Mathematics Unit, Kolkata

Thesis Pre-Submission Talk

Date: February 23, 2023, Thursday
Time: 04:15 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 Hossain

Stat-Math Unit, ISI Kolkata

ABSTRACT:

In this talk, we define various notions of quantum symmetry in a directed or undirected multigraph with no isolated vertices. 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