



INDIAN STATISTICAL INSTITUTE
Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: February 23, 2024

Time: 04:30 PM

VENUE:

L-infinity

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

TITLE:

**Fluctuations of Extreme Eigenvalues and Eigenvectors in
Perturbed Wigner-Type Matrices**

SPEAKER:

Bishakh Bhattacharya

Stat-Math Unit, ISI Kolkata

ABSTRACT:

In this talk, we will study finite rank perturbations of Wigner matrices with independent normalized entry variables satisfying specific moment conditions. We will analyze the fluctuations of the largest eigenvalue of this perturbed matrix, as well as the asymptotic alignment of the corresponding normalized eigenvector. This is an ongoing joint work with Arijit Chakrabarty and Rajat Subhra Hazra.

ALL ARE CORDIALLY INVITED