INDIAN STATISTICAL INSTITUTE

203 B.T. Road, Kolkata-700108

Theoretical Statistics and Mathematics Unit

Monday Colloquium

Date: November 14, 2022 Time: 04:15 P.M.

Venue: L-infinity, Stat-Math Unit (5th Floor, A.N. Kolmogorov Bhavan)

Ritwik Pal

Stat-Math Unit, ISI Kolkata

Title:

Omega-results for Siegel-Hecke eigenvalues of degree 2 Siegel-Hecke eigenforms

ABSTRACT:

For a sequence $(a_n)_{n\in\mathbb{N}}$ of real numbers, the Omega-results indicate how large the order of magnitude of a_m can be in terms of m. On this theme where the sequence is the Hecke-eigenvalues of classical modular forms, the best possible Omega results are known since long back. Similar results for Saito-Kurokawa lifts of degree 2 Siegel modular forms has been worked out a few years back. In this talk, we will present a result on the distribution of Hecke eigenvalues of non Saito-Kurokawa lifts for degree 2 Siegel modular forms and show that it leads to the best possible Omega result for such forms. This is based on a joint work with Pramath Anamby and Soumya Das.

ALL ARE CORDIALLY INVITED