



Theoretical Statistics and Mathematics Unit, Kolkata
INDIAN STATISTICAL INSTITUTE

SEMINAR

Date: July 11, 2025
Time: 03:45 PM

VENUE:

L- Infinity

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

TITLE:

An archimedean density theorem and application

SPEAKER:

Subhajit Jana

Queen Mary University of London, UK

ABSTRACT:

In a recent joint work with Edgar Assing, we prove the Sarnak density hypothesis in the spectral parameter aspect. We will talk about the history of the problem, recent progress, and the idea of our proof which builds upon the recent pivotal work of Nelson-Venkatesh on microlocal analysis. If time permits, we will talk about an application on intrinsic Diophantine approximation.

ALL ARE CORDIALLY INVITED