



INDIAN STATISTICAL INSTITUTE
Theoretical Statistics and Mathematics Unit, Kolkata

Number Theory Seminar

Date: November 14, 2024
Time: 02:00 PM to 3:00 PM

VENUE:

L- infinity

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

TITLE:

**Hybrid subconvex bounds for selfdual $GL(3)$ L-functions via
 $GL_3 \times GL_2 \leftrightarrow GL_4 \times GL_1$ spectral reciprocity**

SPEAKER:

Soumendra Ganguly

Aarhus University, Denmark

ABSTRACT:

We prove a spectral reciprocity formula which relates a GL_2 moment of $GL_3 \times GL_2$ Rankin–Selberg L-functions to a GL_1 moment of $GL_4 \times GL_1$ Rankin–Selberg L-functions. We prove hybrid subconvex bounds for selfdual GL_3 L-functions twisted by primitive Dirichlet characters of arbitrary conductor q simultaneously in the q and t aspects. We additionally prove analogous hybrid subconvex bounds for central values of $GL_3 \times GL_2$ Rankin–Selberg L-functions.

ALL ARE CORDIALLY INVITED