



Theoretical Statistics and Mathematics Unit

Indian Statistical Institute

203 B.T. Road, Kolkata - 700108

SEMINAR

Date: August 20 2026

Time: 4:00 PM

VENUE:

L-2, 4th Floor, A.N. Kolmogorov Bhavan, ISI Kolkata

SPEAKER:

Sayan Ghosh

Stat-Math Unit, ISI Kolkata

TITLE:

Suconvexity for Rankin Selberg L functions at Special points

ABSTRACT:

Let f and g be normalized Hecke–Maass cusp forms for the full modular group with spectral parameters t_f and t_g , respectively, where $0 < t_f, t_g \asymp T \rightarrow \infty$. In this talk, we will discuss subconvex bounds for the Rankin–Selberg L -function $L(1/2 + it, f \otimes g)$ at the special points $t = \pm(t_f \pm t_g)$. When the Archimedean parameter t is close to these points, the L -function exhibits the “conductor dropping phenomenon” in the Archimedean aspect, with the maximum drop occurring exactly at these points. Establishing subconvexity in these regions poses a substantially greater challenge than in the complementary ranges. We will present completely uniform subconvexity bounds for $t = \pm(t_f + t_g)$, and analogous bounds for $t = \pm(t_f - t_g)$ subject to certain lower bound assumptions on $|t|$. If time permits, we will also highlight a few natural generalizations of this problem and their consequences, particularly an analogue in the arithmetic setting.

ALL ARE CORDIALLY INVITED

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