



INDIAN STATISTICAL INSTITUTE
Theoretical Statistics and Mathematics Unit, Kolkata

LECTURE

Date: January 05, 2023, Thursday
Time: 03:00 PM

VENUE:

NAB-1

(Ground Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

**Lagrangian cobordisms, enriched knot diagrams,
and algebraic invariants**

SPEAKER:

Ipsita Datta

Institute for Advanced Study, Princeton, USA

ABSTRACT:

We introduce new invariants to the existence of Lagrangian cobordisms in R^4 . These are obtained by studying moduli spaces of holomorphic disks with corners.

We develop appropriate sign conventions and results to characterize boundary points of 1-dimensional moduli spaces with boundaries on Lagrangian tangles. We then use these to define (SFT-like) algebraic structures that recover the previously described obstructions.

This talk is based on my thesis work under the supervision of Y. Eliashberg and on work in progress joint with J. Sabloff.

ALL ARE CORDIALLY INVITED