



Theoretical Statistics and Mathematics Unit

Indian Statistical Institute

203 B.T. Road, Kolkata - 700108

SEMINAR

Date: September 16, 2026

Time: 4:15 PM

VENUE:

L-Infinity, 5th Floor, A.N. Kolmogorov Bhavan, ISI Kolkata

SPEAKER:

Soham Ghosh

University of Washington, Seattle, USA

TITLE:

Torelli theorems for moduli of (twisted) vector bundles on (stacky) curves

ABSTRACT:

Given a smooth projective curve C over an arbitrary field k , and a Brauer class α on C , one can construct the moduli space of α -twisted vector bundles (of fixed rank and determinant) over C . I will discuss how given such a moduli space, one can recover the curve C and part of the Brauer class α . More generally, I will describe an intrinsic Torelli theorem for moduli stack of vector bundles of fixed rank and determinant on smooth proper, geometrically connected tame DM stacks of dimension ≤ 1 over an arbitrary field k . Time permitting, I will also provide explicit descriptions of some of the moduli spaces, generalizing classical results of Desale-Ramanan, with some consequences for the period-index problem. Based on joint work (in progress) with Ting Gong and Max Lieblich.

ALL ARE CORDIALLY INVITED

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