



# INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

## SEMINAR

Date: June 10, 2024

Time: 04:00 PM

### VENUE:

**L- infinity**

(5<sup>th</sup> Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

### TITLE:

**Moduli Space of Bundles on Orbifold Curves**

### SPEAKER:

**Soumyadip Das**

IIT Jammu

### ABSTRACT:

*The construction and the study of the moduli space of semistable bundles on an algebraic curve is a classical topic. Faltings gave a GIT-free construction of this moduli space. Our objective in this talk is to deal with semistable bundles on an orbifold curve (i.e. a smooth proper Deligne-Mumford stack that is generically a curve) over an algebraically closed field of an arbitrary characteristic. In a recent work, we have defined and studied the semistability of a bundle on an orbifold curve. After a brief review of this construction, we present our construction of the moduli space of semistable bundles on an Orbifold Curve. This is a joint work with Souradeep Majumder.*

**ALL ARE CORDIALLY INVITED**