



# INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

## LECTURE

Date: June 15, 2023, Thursday  
Time: 12:00 Noon

### VENUE:

**L-infinity**

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

### TITLE:

**Projective representation of compact quantum group and  
Biprojective  $C^*$  tensor category**

### SPEAKER:

**Kiran Maity**

Stat-Math Unit, ISI Kolkata

### ABSTRACT:

*In this talk, I will talk about projective representation of a CQG which is an action of a compact quantum group on a type 1 factor. We will prove that every projective representation of a CQG is cleft and the theory of projective representation is kind of similar to the theory of corepresentation of a CQG. After that, we will discuss about Biprojective  $C^*$  tensor category.*

*Biprojective  $C^*$  tensor category is a part of my research work and this is an ongoing work with prof. Debashish Goswami.*

**ALL ARE CORDIALLY INVITED**