



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: October 30, 2023, Monday
Time: 4:15 PM

VENUE:

L-infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

**Liberated orthogonal groups: An exercise in
bicovariant differential calculi**

SPEAKER:

Sugato Mukhopadhyay

Stat-Math Unit, ISI Kolkata

ABSTRACT:

We will begin with a very brief historical perspective for covariant differential calculi. After emphasizing that Kac-type quantum groups have been overlooked in geometry, we will restrict our focus on the liberated orthogonal groups. We will look at a class of differential calculi I constructed, which some term as fundamental. I will illustrate how simple combinatorial techniques can help in studying the Riemannian geometry of these quantum groups. Time permitting, we can look at a couple of problems regarding these quantum groups.

ALL ARE CORDIALLY INVITED