



Theoretical Statistics and Mathematics Unit, Kolkata
INDIAN STATISTICAL INSTITUTE

SEMINAR

Date: October 24, 2025

Time: 02:30 PM

VENUE:

L- Infinity

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

TITLE:

One-crossed bundle over quantum homogeneous space

SPEAKER:

Arnab Bhattacharjee

Charles University, Prague

ABSTRACT:

We introduce a special type of quantum principal bundle, over a quantum homogeneous space, known as a one-crossed bundle. The calculus on the base (quantum homogeneous space) is shown to have a very rich structure, including metrics, Levi-Civita connections, complex structures, and holomorphic structures and even noncommutative Kähler form. We shall explain examples of one-crossed bundle over quantum flag manifolds that supports our general framework. This is a joint work with Réamonn Ó Buachalla.

ALL ARE CORDIALLY INVITED