



# INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

## LECTURE

Date: January 16, 2024

Time: 04:15 PM

### VENUE:

**L-infinity**

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

### TITLE:

**A Modern Look into Pseudodifferential Calculus**

### SPEAKER:

**Satwata Hans**

Department of Mathematics

Eberly College of Science, The Pennsylvania State University

### ABSTRACT:

*Eric van Erp and Robert Yuncken have come up with a new approach to study pseudodifferential operators using Connes' tangent groupoid which is equivalent to Hörmander's pseudodifferential operators of polyhomogeneous symbol. With Nigel Higson, we have studied this modern setup of van Erp and Yuncken for operators with coefficients in a  $\mathcal{S}C^*$ -algebra as per the setup of Mischenko-Fomenko, mainly motivated by a question in the representation theory of connected real reductive Lie groups.*

**ALL ARE CORDIALLY INVITED**