



**Theoretical Statistics and Mathematics Unit, Kolkata**  
**INDIAN STATISTICAL INSTITUTE**

**Seminar**

Date: April 25, 2025  
Time: 11:30 PM

**VENUE:**

**L-infinity**

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

**TITLE:**

**Models for  $(\infty,1)$ -Categories**

**SPEAKER:**

**Shantabrata Saha**

Stat-Math Unit, ISI Kolkata

**ABSTRACT:**

*$(\infty,1)$ -categories generalize ordinary categories by allowing morphisms to have higher homotopies and can be regarded as models for homotopy theories. In this talk, we survey several equivalent models of  $(\infty,1)$ -categories: quasi-categories, complete Segal spaces, simplicial categories, and Segal categories, with a brief discussion of their equivalences if time permits.*

**ALL ARE CORDIALLY INVITED**