



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

**SEMINAR**

**Number Theory and Dynamical Systems**

Date: July 11, 2025

Time: 02:30 PM

**VENUE:**

**L- Infinity**

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

**TITLE:**

**Rational points near manifolds and Khintchine theorem**

**SPEAKER:**

**Shreyasi Datta**

University of York, UK

**ABSTRACT:**

*In this talk, I will try to explain some old and new ideas combining homogeneous dynamics and counting rational points near a manifold. We show how this is applied to prove a Khintchine type result for any non-degenerate manifold. The talk is based on <https://arxiv.org/abs/2505.01227>, joint work with Victor Beresnevich.*

**ALL ARE CORDIALLY INVITED**