



# INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

## Number Theory Seminar

Date: December 19, 2024

Time: 03:30 PM

### VENUE:

**L- infinity**

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

### TITLE:

**Effective equidistribution of Galois orbits for mildly regular test functions**

### SPEAKER:

**Mithun Das**

ICTP, Trieste, Italy

### ABSTRACT:

*In this talk, we shall discuss the effective versions of the celebrated Bilu's equidistribution theorem for Galois orbits of sequences of points of small height in the  $N$ -dimensional algebraic torus, identifying the qualitative dependence of the convergence in terms of the regularity of the test functions. We develop a general Fourier analysis framework that extends previous results. This is joint work with E. Carneiro, ICTP.*

**ALL ARE CORDIALLY INVITED**