



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

SEMINAR

Date, Time & Venue:

July 28, 2025 (11:30 AM -1:00 PM), L-Infinity
August 05, 2025 (12:00 PM -1:00 PM), L-1
August 12, 2025 (12:00 PM -1:00 PM), L-Infinity
August 19, 2025 (12:00 PM -1:00 PM), L-Infinity
August 26, 2025 (12:00 PM -1:00 PM), L-Infinity

TITLE:

**Some Results on Normal Affine Varieties Endowed with an
Effective Torus Action of Codimension 0 or 1**

SPEAKER:

Ananya Pal

Stat-Math Unit, ISI Kolkata

ABSTRACT:

In this short survey talk we consider normal affine varieties over an algebraically closed field of characteristic zero endowed with an effective action of a torus \mathbb{T} of codimension 0 or 1. We discuss results on complete classification of Homogeneous locally nilpotent derivations normalized by the \mathbb{T} -action. We will also discuss rigidity, flexibility and Automorphism groups of such varieties.

ALL ARE CORDIALLY INVITED