



**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

**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**