School of Mathematics
Tata Institute of Fundamental Research

4 June, 2026

Ph.D. Thesis Defense

Speaker	:	***Sandeep S***
Title	:	***Two questions in the theory of $\mathbb{A}^1$-invariant sheaves***
Date & Time	:	***Wednesday, 10 June, 2026 at 4:00 p.m.***
Venue	:	**Lecture Room (AG-77)** ***as well as Via Zoom***

Abstract

The talk will have two independent parts.

Part 1: Bachmann proved a C_2-equivariant version of Gabber's geometric presentation lemma. We extend this to the case of a general abelian group under suitable hypotheses.

Part 2: We extend Otabe's definition of the unramified curve-tame cohomology groups to $\mathbb{A}^1$-invariant étale sheaves under some additional hypotheses. We define a pairing of this group with the Suslin homology satisfying desirable properties and using this, we show that the unramified curve-tame cohomology of a smooth geometrically connected variety over a field of positive characteristic agrees with the cohomology of the base field.

Milind Pilankar

Zoom Link and Credentials

Meeting ID: 9341 5866 010

Passcode: 7073 8718
