



Theoretical Statistics and Mathematics Unit, Kolkata
INDIAN STATISTICAL INSTITUTE

SEMINAR

Date: July 16, 2025
Time: 11:30 AM

VENUE:

L- Infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Geometric implications of \mathbb{A}^1 -connectedness

SPEAKER:

Biman Roy

TIFR, Mumbai

ABSTRACT:

\mathbb{A}^1 -homotopy theory allows us to apply algebraic topology techniques in algebraic geometry. From the standpoint of homotopy theory of a model category, there is a notion of \mathbb{A}^1 -connectedness of a variety. In this talk, we will show that \mathbb{A}^1 -connected varieties over the field of characteristic zero are \mathbb{A}^1 -uniruled. We will also see some useful consequences of this result. This is based on my Ph.D. thesis and this is a joint work with Utsav Sir.

ALL ARE CORDIALLY INVITED