



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: July 29, 2024

Time: 04:15 PM

VENUE:

L- infinity

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

TITLE:

ON CONJECTURES OF EISENBUD AND EVANS

SPEAKER:

Sourjya Banerjee

IMSc, Chennai

ABSTRACT:

Let R be a commutative Noetherian ring of dimension d . In 1973, Eisenbud and Evans proposed three conjectures related to some stability theorems of modules over the polynomial ring $R[T]$. These conjectures were settled in the affirmative by Sathaye, Mohan Kumar, and Plumstead. Later, Mandal, Bhatwadekar-Roy, and Rao extended these conjectures to overrings of $R[T]$. In this talk, we discuss these conjectures for modules over rings lying between R and $R[T]$. We shall discuss a class of such rings, which includes Rees algebras, Rees-like algebras, and Noetherian symbolic Rees algebras, over which all three conjectures hold.

ALL ARE CORDIALLY INVITED