



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

LECTURE

Date: June 14, 2023, Wednesday
Time: 12:00 Noon

VENUE:

L-infinity

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

TITLE:

A proof of Eakin-Nagata Theorem

SPEAKER:

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ABSTRACT:

We will be looking at a proof of Eakin-Nagata theorem by Formanek. If A is a subring of a Noetherian ring B , then A may not be Noetherian. But if B is a finite A -module then A is also a Noetherian ring. The theorem was proved in Eakin's thesis in 1968 and later independently proved by Nagata in the same year. Formanek's proof will highlight how looking at only the module structure of B while forgetting its ring structure leads to nice results.

ALL ARE CORDIALLY INVITED