



**INDIAN STATISTICAL INSTITUTE**  
Theoretical Statistics and Mathematics Unit, Kolkata

**THESIS DEFENSE SEMINAR**

Date: January 20, 2023, Friday  
Time: 04:00 PM

**MODE: Online**

**Video Call Link:** <https://meet.google.com/wpr-ckhc-fmx>

**TITLE:**

Projective modules and complete intersection ideals  
over affine algebras

**SPEAKER:**

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**ABSTRACT:**

*In the literature on projective modules, one of the pivotal results is the following theorem by Mohan Kumar. Let  $A$  be an affine algebra over an algebraically closed field of dimension  $d$ . Then, a projective  $A$ -module of rank  $d$  splits off a free summand of rank one if and only if it has a complete intersection generic section. One of the main themes in my thesis is to extend the above-mentioned result for polynomial algebras. In this talk, we will discuss this and some other closely related results in this direction.*

**ALL ARE CORDIALLY INVITED**