



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

SEMINAR

Date: February 17, 2026

Time: 03:00 PM

VENUE:

L- 1

(3rd Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Lecture-3: Perfectoid Spaces and Direct Summand Conjecture

SPEAKER:

Om Sai

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ABSTRACT:

I will start by giving an example of a uniformly almost finitely generated (presented) module and mention a result that relates almost flatness with almost projectivity under the extra assumptions of almost finite presentation (with flatness) and almost finite generation (with projectivity). Then, I will move on to discuss almost (finite) étale extensions. After this, I will state and prove a primitive version of the almost purity theorem in characteristic p . If time permits, I will also discuss a categorical version of almost purity in positive characteristic.

ALL ARE CORDIALLY INVITED