Theoretical Statistics and Mathematics Unit

Indian Statistical Institute

203 B.T. Road, Kolkata - 700108

Thesis Pre-Submission Seminar

Date: November 12, 2026

Time: 2:30 PM

VENUE:

L-Infinity, 5th Floor, A.N. Kolmogorov Bhavan, ISI Kolkata

SPEAKER:

Akashdwip Biswas

Stat-Math Unit, ISI Kolkata

TITLE:

EO-theories of complex projective spaces

ABSTRACT:

In this talk we will present some results on real and higher real K-theories of complex projective spaces, KO^*(C P^n), EO_{p−1}_ ∗(C P^n) for odd primes p. We will give a brief review of the cohomology theories EO_{p−1} and discuss the method which involves filtration spectral sequence and homotopy fixed point spectral sequence. Finally using these computations we will discuss various applications about exotic smooth structures on complex projective spaces, existence of free smooth S^1,S^3-actions on exotic spheres, existence of complex hyperbolic manifolds with certain curvature properties.

ALL ARE CORDIALLY INVITED

Click here for More Seminar Information

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