



INDIAN STATISTICAL INSTITUTE

203 B.T. Road, Kolkata-700108

Theoretical Statistics and Mathematics Unit
Monday Colloquium

Date: January 09, 2023

Time: 04:15 P.M.

Venue: L-infinity, Stat-Math Unit (5th Floor, A.N. Kolmogorov Bhavan)

Prasit Bhattacharya

New Mexico State University

TITLE:

Equivariant Steenrod Operations

ABSTRACT:

Classical Steenrod operations is one of the most fundamental and formidable tools in stable homotopy theory. It led to calculation of homotopy groups of spheres, calculation of cobordism rings, characteristic classes, and many other celebrated applications of homotopy theory to geometry. However, equivariant Steenrod operations are yet to be known beyond the group of order 2. In this talk, I will demonstrate a geometric construction of the classical Steenrod operations and generalize it to construct G -equivariant Steenrod operations for any finite group G . Time permitting, I will discuss potential applications to equivariant geometry.

ALL ARE CORDIALLY INVITED