

Colloquium

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ORIENTED EQUIVARIANT COHOMOLOGY, FORMAL GROUP LAWS, AND GENERALIZED SCHUBERT CALCULUS

Friday, October 10, 2014

3:00 p.m. in ES-143

(tea & coffee at 2:30 p.m. in ES-152)

ABSTRACT. Oriented equivariant cohomology theories and the associated formal groups laws have been a subject of intensive investigations since the 60's, mostly inspired by the theory of complex cobordism in topology. In the present talk we discuss several recent developments in the study of algebraic analogues of such theories, e.g., algebraic cobordism of Levine-Morel or algebraic elliptic cohomology, of projective homogeneous varieties. In particular, we address the problem of constructing the Schubert and the Bott-Samelson classes for such theories.