

EQUIVARIANT STEENROD OPERATIONS

Speaker: Foling Zou

Academy of Mathematics and Systems Science, CAS

Time: Fri, May 8, 16: 00-17: 00

Venue: Room 102, SCMS

Abstract:

Representation graded Bredon G -equivariant cohomology theories are represented by genuine G -spectra. We introduce the concept of R -Eulerian sequences for an equivariant commutative ring spectra R . Each R -Eulerian sequence corresponds to a stable R -cohomology operation. We apply our theory to equivariant ordinary cohomology to produce genuine equivariant lifts of the classical Steenrod operations for all finite groups. This is joint work with Prasit Bhattacharya, Alex Waugh and Mingcong Zeng.