

TOPOLOGY SEMINAR

Guest Speaker: Nikolaos Georgakopoulos
University of Chicago

Date: Tuesday, September 7, 2021

Time: 2:30 PM

Location: 258 Hurley Hall

Zoom Link: <https://notredame.zoom.us/j/97262637721>



Lecture Title:

The $RO(G)$ graded cohomology of G -equivariant classifying spaces

Abstract

The cohomology of classifying spaces is an important classical topic in algebraic topology. However, much less is known in the equivariant setting, where one wants to know the $RO(G)$ -graded cohomology of classifying G -spaces. The problem is that $RO(G)$ -graded cohomology is notoriously difficult to compute even when G is cyclic. In this talk, I will explain my computations in the case of cyclic 2-groups G while keeping technical details to a minimum. The main goal is to understand rational equivariant characteristic classes, but I will also discuss some mod 2 computations and their relevance to the equivariant dual Steenrod algebra.