

TOPOLOGY SEMINAR

Guest Speaker: Yutao Liu

University of Chicago

Date: Tuesday, March 7, 2023

Time: 2:30 PM

Location: 258 Hurley Hall

Zoom Link: NA



Lecture Title:

Computing equivariant homotopy with a splitting method

Abstract

Computations in equivariant homotopy theory are usually hard, especially when the acting group becomes larger and non-abelian. In this talk, I will introduce a new computational method by splitting the category of equivariant spectra into smaller pieces after applying certain localizations. It provides an inductive way to compute equivariant objects acted on by large groups and works well for both abelian and non-abelian groups. Examples including equivariant Eilenberg-MacLane spectra and equivariant complex cobordism will be provided in details.