

TOPOLOGY SEMINAR

Guest Speaker: Jeremy Miller

Purdue University

Date: Tuesday, November 14, 2023

Time: 2:30 PM

Location: 258 Hurley Bldg

Zoom Link: NA



Jeremy Miller - Purdue University

Lecture Title:

Rognes' connectivity conjecture

Abstract

Rognes' connectivity conjecture concerns the connectivity of a simplicial complex called the common basis complex. The equivariant homology of this complex is the E^1 page of a spectral sequence converging to the homology of K -theory spectra. I will describe joint work with Patzt and Wilson where we prove the connectivity conjecture for fields. I will also explain a connection between the homology the common basis complex and the André–Quillen homology of a certain equivariant ring built out of Steinberg modules.