

GRADUATE STUDENT TOPOLOGY
SEMINAR

Guest Speaker: Connor Malin

University of Notre Dame

Date: Friday, February 10, 2023

Time: 2:00 PM

Location: 258 Hurley Hall

Zoom URL: notredame.zoom.us/j/95833937181



Lecture Title:

Nonabelian Poincaré Duality

Abstract

We motivate and investigate a space level formulation of Poincare duality which for a compact manifold M states the mapping space $\text{Map}(M, K(\mathbb{Z}, n))$ is equivalent to the free \mathbb{Z} -module generated by M . This will lead us to investigating exotic versions of homology on the category of smooth manifolds and eventually to factorization homology.