

TOPOLOGY SEMINAR

Guest Speaker: Ryan Stees

Indiana University - Bloomington

Date: Tuesday, December 6, 2022

Time: 2:15 PM

Location: 117 Hayes-Healy Hall

Zoom Link: NA



Lecture Title:

Milnor's invariants for knots and links in closed orientable 3-manifolds

Abstract

Early in his career, John Milnor defined his seminal link invariants, now called Milnor's $\bar{\mu}$ -invariants. They are concordance invariants of links in S^3 , and much is known about them. However, until recently, few results have extended Milnor's work to links in other closed orientable 3-manifolds, and such extensions have only done so for special classes of 3-manifolds. In this talk, I will discuss an extension of these invariants to concordance invariants of knots and links in any closed orientable 3-manifold, discuss some theorems that justify calling them "Milnor's invariants", and study their properties.