

TOPOLOGY SEMINAR

Guest Speaker: Lisa Piccirillo
M.I.T.

Date: Tuesday, October 6, 2020

Time: 2:30 PM

Location: Zoom

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

Lecture Title:

Knot concordance and 4-manifolds

Abstract

There is a rich interplay between the fields of knot theory and 3- and 4-manifold topology. In this talk, I will describe a weak notion of equivalence for knots called concordance, and highlight some historical and recent connections between knot concordance and the study of 4-manifolds, with a particular emphasis on applications of knot concordance to the construction and detection of small 4-manifolds which admit multiple smooth structures.

