

GRADUATE STUDENT SEMINAR

Guest Speaker: Matt Scalamandre

University of Notre Dame

Date: Monday, September 19, 2022

Time: 4:00 PM

Location:

Zoom URL: notredame.zoom.us/j/93888654312

Lecture Title:

Morse Theory

Abstract

Morse theory is a tool for translating information about the derivatives of a nice real-valued function on a manifold into topological information about that manifold. We will use this tool to provide simplicial and handle decompositions of smooth manifolds, and discuss other topological applications (e.g. to cobordisms, exotic spheres, 3-manifolds, ...).