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GRADUATE STUDENT SEMINAR

Guest Speaker: Jason Mitrovich University of Notre Dame

Date: Monday, November 13, 2023

Time: 5:00 PM

Location: 258 Hurley Bldg

Zoom URL: NA



Lecture Title:

The resolution of the Yamabe problem

Abstract

The Yamabe problem is concerned with searching for conformal metrics from a prescribed scalar curvature. In this talk, I will first discuss some background regarding conformal metrics and scalar curvature. Then I will discuss Yamabe's original motivation and how this problem is connected to Poincaré's conjecture. With this, I will sketch out a proof for the Yamabe problem when we consider a restricted class of Riemannian manifolds. With the remaining time, I will discuss some progress made in other cases of interest.