UNIVERSITY OF NOTRE DAME

Geometric Analysis Seminar

Department of Mathematics

Guest Speaker: Aaron Tyrrell

University of Notre Dame

Lecture Title:

Obstructions to the existence of compact minimal submanifolds in noncompact manifolds

Date: Thursday, November 5, 2026

Time: 11:00 AM

Location: 258 Hurley Hall

Abstract:

In this project we develop two complimentary approaches to identifying obstructions to the existence of compact minimal submanifolds inside of noncompact spaces. We use techniques from conformal geometry and PDE. This is joint work with Jeffrey Case, Dawit Mengesha and Samuel Pérez-Ayala.