

## ***GEOMETRIC ANALYSIS SEMINAR***

**Speaker: Aaron Tyrrell**  
**University of Notre Dame**

**Date:** Thursday, November 14, 2019

**Time:** 11:00 AM

**Location:** 258 Hurley Hall



***Lecture Title:***

**Area renormalization and singular Yamabe energy for boundaries of minimal sub-manifolds**

***Abstract***

There has been work done on volume/area renormalization for conformally compact Einstein metrics and also volume renormalization for singular Yamabe metrics on a manifold  $X$ , which gives rise to the so called “Yamabe energy” of the boundary of  $X$ . We will look at an analogous area-renormalization for minimal sub-manifolds in the singular Yamabe case and examine the Yamabe energy of their boundaries.