Department of Mathematics
University of Notre Dame

GRADUATE STUDENT GEOMETRY SEMINAR

Speaker: Khoi Nguyen
University of Notre Dame

Date: Wednesday, November 30, 2022
Time: 2:00 PM
Location: 258 Hurley Hall
Zoom URL: notredame.zoom.us/j/7896522205

Lecture Title:

Scalar curvature under the collapse of metric

Abstract
We prove a formula involving the scalar curvature of a Riemannian manifold endowed with a distribution in terms of an adapted orthonormal frame for its tangent bundle. Using the formula, we then investigate the effect of collapsing the metric along the distribution on the scalar curvature. This result contributes to the question of finding a positive scalar curvature metric on a Riemannian manifold.

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