Department of Mathematics
University of Notre Dame

GRADUATE STUDENT SEMINAR

Guest Speaker: Khoi Nguyen
University of Notre Dame

Date: Tuesday, May 2, 2023
Time: 4:00 PM
Location: 258 Hurley Hall
Zoom URL: notredame.zoom.us/j/93888654312

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Lecture Title:
Scalar curvature under the collapse of metric

Abstract
We prove a formula for the scalar curvature of a Riemannian manifold in terms of an orthonormal frame adapted to a distribution. Using the formula, we then investigate the effect of collapsing the metric along the distribution on the scalar curvature. This work is towards an effort of better understanding the scalar curvature of a manifold and its effect under scaling the underlying Riemannian metric.

Khoi Nguyen - University of Notre Dame