# Department of Mathematics
## University of Notre Dame

# *FELIX KLEIN SEMINAR*

**Speaker: Luigi Verdiani**

**Università degli Studi di Firenze, Italy**

**Date:** Thursday, March 28, 2019

**Time:** 2:00 PM

**Location:** 258 Hurley Hall

## *Lecture Title:*
## Curvature homogeneous cohomogeneity one manifolds

### *Abstract*

A Riemannian manifold $M$ is curvature homogeneous if, given $p, q \in M$ there is a linear isometry between the tangent spaces at $p$ and $q$ that preserves the curvature tensor. Every (locally) homogeneous manifold is obviously curvature homogenous but there are inhomogeneous examples. We will present a classification in dimension 4 for curvature homogeneous manifolds that admit an isometric action of a compact Lie group with codimension one orbits.

Luigi Verdiani - Università degli Studi di Firenze, Italy