



Speaker: John Harvey
University of Notre Dame

Thursday, October 10, 2013
11:00 AM
258 Hurley Hall

Title: 4-dimensional positively curved Alexandrov spaces with circle symmetry

Abstract:

The 4-dimensional positively curved Alexandrov spaces with circle symmetry are classified up to equivariant homeomorphism, generalizing results of Hsiang & Kleiner and of Grove & Wilking for Riemannian manifolds.

In order to obtain the result a fundamental new tool in equivariant Alexandrov geometry -- the slice theorem -- is introduced. A description of positively curved Alexandrov spaces X with an action of a compact Lie group G such that X^G has codimension one in X/G is also given.

"This talk is based on joint work with Catherine Searle."