

Lorenz Schwachhoefer (Universität Dortmund):

Lower curvature bounds on manifolds with low cohomogeneity

Abstract: Closed manifolds which admit a group action of low cohomogeneity are an excellent source of examples of manifolds with lower bounds on the sectional or the Ricci curvature. We shall give a survey of known results and construction methods on manifolds of cohomogeneity one. We shall also describe some new results on manifolds of nonnegative sectional curvature with a cohomogeneity two action.