Colloquíum



Speaker: Vitali Kapovitch University of Toronto

Thursday, November 10, 2011 2:00 pm 125 Hayes-Healy Hall

Title: Structure of fundamental groups of manifolds with Ricci curvature bounded below

Abstract:

We prove several structure results about fundamental groups of manifolds with Ricci curvature bounded below. In particular we prove the following Generalized Margulis Lemma. In each dimension n there are positive constants C and ϵ such that for any complete manifold M^n with Ric> -(n-1) the subgroup of the fundamental group generated by loops contained in any ϵ -ball contains a nilpotent subgroup of index at most C. This is joint work with Burkhard Wilking.