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Title: Gromov's Betti number bound and intermediate curvatures

Abstract:

We will give an introduction to Gromov's Betti number bound, which is a famous result in differential geometry. Roughly speaking this says that a lower bound on curvature restricts topological complexity. We will then describe some recent joint work with Philipp Reiser which studies the failure of Gromov's result to hold under a range of weaker geometric conditions.