

Christoph Boehm: Ricci flow and non-negative sectional curvature

(Joint work with Burkhard Wilking) We show that a compact Riemannian manifold with finite fundamental group, which admits a Riemannian metric of nonnegative sectional curvature, does also carry a Riemannian metric with positive Ricci curvature. The proof relies on a time-dependent version of Hamiltons maximum principle for Ricci flow applied to a suitable curvature expression.