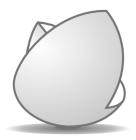Contribution ID: **7**   Type: **not specified**

The Ricci Flow on manifolds with almost non-negative curvature operator

Tuesday, October 11, 2016 3:30 PM (50 minutes)

We show that n-manifolds with a lower volume bound v and upper diameter bound D whose curvature operator is bounded below by $-\varepsilon(n, v, D)$ also admit metrics with nonnegative curvature operator. The proof relies on heat kernel estimates for the Ricci flow and shows that various smoothing properties of the Ricci flow remain valid if an upper curvature bound is replaced by a lower volume bound.

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