

2020 Taipei-Hsinchu Conference on Geometric Invariance and Partial Differential Equations
Academia Sinica, Taipei, Taiwan
National Tsing Hua University, Hsinchu, Taiwan
January 4 - 9, 2020

$L^{n/2}$ curvature pinching for the Ricci flow on asymptotically flat manifolds

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Abstract

On compact manifolds there are numerous curvature pinching conditions guaranteeing the Ricci flow's long-time existence and convergence. We will describe a curvature pinching condition on asymptotically flat manifolds based on a critical power integral norm of curvature which guarantees the Ricci flow's long-time existence and convergence.