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Final Defense

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Perelman's entropy on ancient solutions to the Ricci flow

Abstract:

We prove a gap theorem for asymptotic entropy on ancient Ricci flows. We also prove an assertion made by Perelman in his paper "The entropy formula for the Ricci flow and its geometric applications", saying that for an ancient solution with bounded nonnegative curvature operator, bounded entropy is equivalent to noncollapsing on all scales.

Advisors: Bennet Chow and Lei Ni

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