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Yucheng Lu* (y1u27@ucsc.edu). *Normalized Ricci Flow on Non-Compact Manifolds*. Preliminary report.

We study the behavior of the normalized Ricci flow of initial metrics which are perturbations of an Einstein metric. If the perturbation is small enough, then we show that the normalized Ricci flow exists globally, and converges smoothly and exponentially fast to that Einstein metric as time approaches infinity. (Received September 26, 2017)