

GEOMETRIC ANALYSIS SEMINAR

“Non-Kaehler Ricci Flows that Converge to Kaehler-Ricci Solitons”

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Abstract: We consider a family of Riemannian (non-Kaehler) Ricci flow solutions which develop finite-time (Type I) singularities such that parabolic rescalings at the singularities take the form of shrinking Kaehler-Ricci solitons. In particular, the singularity models for these solutions are the “blowdown soliton” studied by Feldman-Ilmanen-Knopf. Our results support the conjecture that the blowdown soliton is stable under Ricci flow. As well, our work provides the first set of rigorous examples of non-Kaehler Ricci flow solutions which become asymptotically Kaehler in suitable neighborhoods of the developing singularities.

Friday, April 14th, 2017
MIT, Room 2-146
Time: 2:00PM

