

Examples in relation with a metric Ricci flow

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Abstract. Gigli and Mantegazza have observed how optimal transport and heat diffusion allow to describe the direction of the Ricci flow uniquely from the metric aspects of Riemannian manifolds. The goal is to reformulate the Ricci flow so that it also makes sense for metric spaces. I will present investigations and results obtained with Matthias Erbar (University of Bonn) that concerns some non-Riemannian limits of Riemannian manifolds, in particular the Euclidean cone and the Heisenberg group.