

# ON THE LOCAL EXISTENCE OF ONE CALABI-TYPE FLOW

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As a subsequent paper of [Z], we mainly discuss here the details about the local existence of one negative gradient flow for one  $L^2$ -integral of Ricci curvature on any compact manifold, which is actually one fourth order degenerate parabolic equation. Meanwhile, the further discussions about the phenomenon of blowing up for the singularities of the flow are given, according to the earlier results in [Z].

**Keywords** Ricci Flow DeTurck Trick principal symbol injective radius  
finiteness of Riemannian Manifold

**2000 Mathematics subject classification** Primary 53C20

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† This work is supported by the Foundations of NNSF of China, the Foundation for University Key Teacher by MEC and Shanghai Priority Academic Discipline. It was also partially finished while the author was visiting the Institute for Mathematical Sciences, National University of Singapore in 2004. The visit was supported by the Institute.