

Workshop on Geometric Evolution Equations
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Ricci flow and physical quantities

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Abstract

In this talk, after a brief review about the recent works of Dai-Ma (Mass under the Ricci flow, *Comm. Math. Phys.* **274** (2007), 65–80) and Oliynyk–Woolgar (Asymptotic flat Ricci flows, *CAG* **15** (2007) 535–568), we discuss the change of some physical quantities such as local mass, Schwarzschild mass, etc, under Ricci flow. Special cases for the radial metrics will be discussed in detail.