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**Qi S. Zhang\*** (qizhang@math.ucr.edu), Riverside, CA 92521. *On volume and diameter bounds under Ricci flows.*

Let  $(M, g(t))$  be a Ricci flow on compact Riemannian manifolds. We will describe why the volume of geodesic balls and diameters are bounded in finite time, provided that the scalar curvature is bounded in certain sense. The result is a synthesis of the work by a few people, including the author. (Received February 11, 2014)