1039-58-83   **Yu Ding*** (`yding@csulb.edu`), Department of Mathematics and Statistics, California State University, Long Beach, Long Beach, CA 90840. *Degenerate singularity in three dimensional Ricci flow.*

We prove that a rescale limit of any degenerate singularity of Ricci flow in dimension three is a steady gradient soliton.

We also give a geometric description of type I and type II singularities. (Received March 06, 2008)