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Andrew A Cooper* (coope106@math.msu.edu), Department of Mathematics, Michigan State University, East Lansing, MI 48824. *Smooth singularity models for the Lagrangian mean curvature flow.*

We use a rescaling technique which produces smooth singularity models for the Lagrangian mean curvature flow. We will show that for any compact Lagrangian mean curvature flow, the first time singularity is modeled by either an exact, zero-Maslov-class Lagrangian flow, or a monotone Lagrangian flow, depending on the type of the singularity. (Received February 07, 2011)