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Mean curvature flow of Lagrangian submanifolds with isolated conical singularities

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In this paper we study the short time existence problem for the (generalized) Lagrangian mean curvature flow in (almost) Calabi--Yau manifolds when the initial Lagrangian submanifold has isolated conical singularities modelled on stable special Lagrangian cones. Given a Lagrangian submanifold $F_0: \mathbb{R} \rightarrow M$ in an almost Calabi--Yau manifold M with isolated conical singularities at $x_1, \dots, x_n \in M$ modelled on stable special Lagrangian cones C_1, \dots, C_n in \mathbb{C}^m , we show that for a short time there exist one-parameter families of points $x_1(t), \dots, x_n(t) \in M$ and a one parameter family of Lagrangian submanifolds $F(t, \cdot): \mathbb{R} \rightarrow M$ with isolated conical singularities at $x_1(t), \dots, x_n(t) \in M$ modelled on C_1, \dots, C_n , which evolves by (generalized) Lagrangian mean curvature flow with initial condition $F_0: \mathbb{R} \rightarrow M$.

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