

cases	doc_1		doc_2		decision	id
			authors	<ul style="list-style-type: none">Joyce, Dominic	NOT DUPLICATES	1973
			title	Special Lagrangian submanifolds with isolated conical singularities. III. Desingularization, the unobstructed case		
			publication_date	2003-01-01 00:00:00		
	authors	<ul style="list-style-type: none">Joyce, Dominic	source	SupportedSources.CORE		
	title	Special Lagrangian submanifolds with isolated conical singularities. V. Survey and applications	journal	None		
	publication_date	2003-01-01 00:00:00	volume			
	source	SupportedSources.CORE	doi	10.1023/b:agag.0000023231.31950.cc		
	journal	Journal of Differential Geometry	urls	<ul style="list-style-type: none">https://core.ac.uk/download/pdf/1568128.pdf		
	volume		id	id-3108400831647258967		
	doi	None	abstract	This is the third in a series of five papers math.DG/0211294, math.DG/0211295, math.DG/0302356, math.DG/0303272 studying compact special Lagrangian submanifolds (SL m-folds) X in (almost) Calabi-Yau m-folds M with singularities x_1, \dots, x_n locally modelled on special Lagrangian cones C_1, \dots, C_n in C^m with isolated singularities at 0. Readers are advised to begin with the final paper math.DG/0303272 which surveys the series, gives examples, and applies the results to prove some conjectures. The first two papers math.DG/0211294, math.DG/0211295 studied the regularity of X near its singular points, and the moduli space of deformations of X . In this paper and the fourth math.DG/0302356 we construct desingularizations of X , realizing X as a limit of a family of compact, nonsingular SL m-folds \tilde{N}^t in M for small $t > 0$. Suppose L_1, \dots, L_n are Asymptotically Conical SL m-folds in C^m , with L_i asymptotic to the cone C_i at infinity. We shrink L_i by a small $t > 0$, and glue tL_i into X at x_i for $i = \bar{1}, \dots, n$ to get a 1-parameter family of compact, nonsingular Lagrangian m-folds N^t for small $t > 0$. Then we show using analysis that when t is sufficiently small we can deform N^t to a compact, nonsingular SL m-fold \tilde{N}^t via a small Hamiltonian deformation. This \tilde{N}^t depends smoothly on t , and as $t \rightarrow 0$ it converges to the singular SL m-fold X , in the sense of currents. This paper studies the simpler cases, where by topological conditions on X and L_i we avoid various obstructions to existence of \tilde{N}^t . The sequel math.DG/0302356 will consider more complex cases when these obstructions are nontrivial, and also desingularization in families of almost Calabi-Yau m-folds. Comment: 54 pages. (v2) new reference, changed notatio		
	urls	<ul style="list-style-type: none">https://core.ac.uk/download/pdf/96552.pdf	versions			
	id	id-6721536835861504877				
	abstract	Special Lagrangian m-folds (SL m-folds) are a distinguished class of real m-dimensional minimal submanifolds which may be defined in C^m , or in Calabi				
	versions					