

cases	doc_1		doc_2		decision	id
			authors	<ul style="list-style-type: none"><li>Tommaso Pacini</li></ul>	DUPLICATES	163
			title	Desingularizing isolated conical singularities: Uniform estimates via weighted Sobolev spaces		
			publication_date	2012-11-12 00:00:00		
			source	SupportedSources.INTERNET_ARCHIVE		
			journal			
			volume			
			doi			
			urls	<ul style="list-style-type: none"><li>https://archive.org/download/arxiv-1005.3511/1005.3511.pdf</li></ul>		
			id	id-8227055806813848420		
			abstract	We define a very general "parametric connect sum" construction which can be used to eliminate isolated conical singularities of Riemannian manifolds. We then show that various important analytic and elliptic estimates, formulated in terms of weighted Sobolev spaces, can be obtained independently of the parameters used in the construction. Specifically, we prove uniform estimates related to (i) Sobolev Embedding Theorems, (ii) the invertibility of the Laplace operator and (iii) Poincare' and Gagliardo-Nirenberg-Sobolev type inequalities. Our main tools are the well-known theories of weighted Sobolev spaces and elliptic operators on "conifolds". We provide an overview of both, together with an extension of the former to general Riemannian manifolds. For a geometric application of our results we refer the reader to our paper "Special Lagrangian conifolds, II: Gluing constructions in C^m".		
			versions			