	doc_1		doc_2		decision	id
cases	authors	Benoit Daniel     William H. Meeks III     Harold Rosenberg	authors	Benoit Daniel     William H. Meeks III     Harold Rosenberg		
	title	Half-space theorems for minimal surfaces in Nil_3 and Sol_3	title	Half-space theorems and the embedded Calabi-Yau problem in Lie groups		
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	journal	J. Differential Geometry 88 (2011), no. 1, 41-60	journal	None		
	volume		volume			
	doi		doi			
	urls	<ul> <li>http://arxiv.org/pdf/1005.3963v1</li> <li>http://arxiv.org/abs/1005.3963v1</li> <li>http://arxiv.org/pdf/1005.3963v1</li> </ul>	urls	<ul> <li>http://arxiv.org/pdf/1012.1986v1</li> <li>http://arxiv.org/abs/1012.1986v1</li> <li>http://arxiv.org/pdf/1012.1986v1</li> </ul>	DUPLICATES	1177
	id	id7979731713237653352	id	id-6257126702300444097	]	
	abstract	We prove some half-space theorems for minimal surfaces in the Heisenberg group Nil_3 and the Lie group Sol_3 endowed with their left-invariant Riemannian metrics. If S is a properly immersed minimal surface in Nil_3 that lies on one side of some entire minimal graph G, then S is the image of G by a vertical translation. If S is a properly immersed minimal surface in Sol_3 that lies on one side of a special plane, then S is another special plane.	abstract	We study the embedded Calabi-Yau problem for complete embedded constant mean curvature surfaces of finite topology or of positive injectivity radius in a simply-connected three-dimensional Lie group X endowed with a left-invariant Riemannian metric. We first prove a half-space theorem for constant mean curvature surfaces. This half-space theorem applies to certain properly immersed constant mean curvature surfaces of X contained in the complements of normal R^2 subgroups F of X. In the case X is a unimodular Lie group, our results imply that every minimal surface in X-F that is properly immersed in X is a left translate of F and that every complete embedded minimal surface of finite topology or of positive injectivity radius in X-F is also a left translate of F.		
	versions		versions			