cases	doc_1		doc_2		decision	id
	authors	• Ãgota Figula	**authors**	• Ãgota Figula	NOT DUPLICATES	1126
	title	Three-dimensional loops as sections in a four-dimensional solvable Lie group	**title**	Three-dimensional topological loops with solvable multiplication groups		
	publication_date	2015-07-02 15:38:16+00:00	**publication_date**	2015-07-04 19:07:39+00:00		
	source	SupportedSources.ARXIV	**source**	SupportedSources.ARXIV		
	journal	Iscia Group Theory 2010, pp. 146-158	**journal**	Communications in Algebra 42 (2014), pp. 444-468		
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	urls	• http://arxiv.org/pdf/1507.00631v1 • http://arxiv.org/abs/1507.00631v1 • http://arxiv.org/pdf/1507.00631v1	**urls**	• http://arxiv.org/pdf/1507.01134v1 • http://arxiv.org/abs/1507.01134v1 • http://arxiv.org/pdf/1507.01134v1		
	id	id-3350130083126758621	**id**	id3956071868011939834		
	abstract	We classify all three-dimensional connected topological loops such that the group topologically generated by their left translations is the four-dimensional connected Lie group G which has trivial center and precisely two one-dimensional normal subgroups. We show that G is not the multiplication group of connected topological proper loops.	**abstract**	We prove that each 3-dimensional connected topological loop L having a solvable Lie group of dimension ≤ 5 as the multiplication group of L is centrally nilpotent of class 2. Moreover, we classify the solvable non-nilpotent Lie groups G which are multiplication groups for 3-dimensional simply connected topological loops L and $\hbox{dim} \ G \le 5$. These groups are direct products of proper connected Lie groups and have dimension 5. We find also the inner mapping groups of L.		
	versions		**versions**			