cases	doc_1	doc_2	decision	id
			DUPLICATES	895

doc_1

authors	• GlÃ¶ckner, H.
title	Direct limits of infinite-dimensional Lie groups compared to direct limits in related categories
publication_date	2007-01-01 00:00:00
source	SupportedSources.CROSSREF
journal	
volume	
doi	10.1016/j.jfa.2006.12.018
urls	• https://api.elsevier.com/content/article/PII:S0022123607000055?httpAccept=text/xml • https://api.elsevier.com/content/article/PII:S0022123607000055?httpAccept=text/plain • http://dx.doi.org/10.1016/j.jfa.2006.12.018
id	id-3130340891519050231
abstract	
versions	

doc_2

authors	• Helge Glockner
title	Direct limits of infinite-dimensional Lie groups compared to direct limits in related categories
publication_date	2006-06-03 21:12:55+00:00
source	SupportedSources.ARXIV
journal	None
volume	
doi	
urls	• http://arxiv.org/pdf/math/0606078v1 • http://arxiv.org/abs/math/0606078v1 • http://arxiv.org/pdf/math/0606078v1
id	id2227397250817996117
abstract	Let G be a Lie group which is the union of an ascending sequence of Lie groups G_n (all of which may be infinite-dimensional). We study the question when G is the direct limit of the G_n's in the category of Lie groups, topological groups, smooth manifolds, resp., topological spaces. Full answers are obtained for G the group Diff_c(M) of compactly supported smooth diffeomorphisms of a sigma-compact smooth manifold M, and for test function groups C^infty_c(M,H) of compactly supported smooth maps with values in a finite-dimensional Lie group H. We also discuss the cases where G is a direct limit of unit groups of Banach algebras, a Lie group of germs of Lie group-valued analytic maps, or a weak direct product of Lie groups.
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