cases	doc_1	doc_2	decision	id
			DUPLICATES	636

doc_1

authors	• Bogfjellmo, G. • Dahmen, R. • Schmeding, A.
title	Character groups of Hopf algebras as infinite-dimensional Lie groups
publication_date	2016-01-01 00:00:00
source	SupportedSources.CROSSREF
journal	
volume	
doi	10.5802/aif.3059
urls	• http://www.cedram.org/cgi-bin/textserve/AIF_2016__66_5_2101_0 • http://dx.doi.org/10.5802/aif.3059
id	id-8543682470854848039
abstract	
versions	

doc_2

authors	• Geir Bogfjellmo • Rafael Dahmen • Alexander Schmeding
title	Character groups of Hopf algebras as infinite-dimensional Lie groups
publication_date	2015-01-21 16:38:13+00:00
source	SupportedSources.ARXIV
journal	Ann. Inst. Fourier (Grenoble), 66 no. 5 (2016), p. 2101-2155
volume	
doi	
urls	• http://arxiv.org/pdf/1501.05221v3 • http://arxiv.org/abs/1501.05221v3 • http://arxiv.org/pdf/1501.05221v3
id	id1046935923355746699
abstract	In this article character groups of Hopf algebras are studied from the perspective of infinite-dimensional Lie theory. For a graded and connected Hopf algebra we construct an infinite-dimensional Lie group structure on the character group with values in a locally convex algebra. This structure turns the character group into a Baker--Campbell--Hausdorff--Lie group which is regular in the sense of Milnor. Furthermore, we show that certain subgroups associated to Hopf ideals become closed Lie subgroups of the character group. If the Hopf algebra is not graded, its character group will in general not be a Lie group. However, we show that for any Hopf algebra the character group with values in a weakly complete algebra is a pro-Lie group in the sense of Hofmann and Morris.
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