	doc_1		doc_2		decision	id
			authors	Karl-Hermann Neeb		
	authors	Neeb, K.	title	On Analytic Vectors for Unitary Representations of Infinite Dimensional Lie Groups]	
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		bin/textserve/AIF_201161_5_1839_0	id	id2866145741406869612		
		• http://dx.doi.org/10.5802/aif.2660	abstract	Let G be a 1-connected Banach-Lie group or, more generally, a BCHLie group. On the complex enveloping algebra $U_C(g)$ of its Lie algebra g we define the concept of an analytic functional and show that every positive analytic functional l in the sense that it is of the form l analytic vector g of a unitary representation of g . On the way to this result we derive criteria for the integrability of *-representations of infinite dimensional Lie algebras of unbounded operators to unitary group representations. For the matrix coefficient l in g is analytic in an identity neighborhood. Combining this insight with the results on positive analytic functionals, we derive that every local positive definite analytic function on a 1-connected Fr\'echetBCHLie group g extends to a global analytic function.		
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