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	authors	<ul style="list-style-type: none">Glückner, H.	authors	<ul style="list-style-type: none">Helge Glockner	DUPLICATES	877
	title	Solutions to open problems in Neeb's recent survey on infinite-dimensional Lie groups	title	Solutions to open problems in Neeb's recent survey on infinite-dimensional Lie groups		
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	id	id2919165919783709579	id	id4677391218523219128		
	abstract		abstract	We solve three open problems concerning infinite-dimensional Lie groups posed in a recent survey article by K.-H. Neeb: (1) There exists a subgroup of some infinite-dimensional Lie group G which does not admit an initial Lie subgroup structure; (2) The pathology cannot occur if G is a direct limit of an ascending sequence of finite-dimensional Lie groups; (3) Every such direct limit group is a "topological group with Lie algebra" in the sense of Hofmann and Morris. Moreover, we prove a version of Borel's Theorem announced in the survey, ensuring the existence of compactly supported smooth diffeomorphisms with given Taylor series around a fixed point p (provided the tangent map at p has positive determinant).		
	versions		versions			