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	authors	<ul style="list-style-type: none">HOFMANN, K.NEEB, K.	authors	<ul style="list-style-type: none">K. H. HofmannK. -H. Neeb		
	title	Pro-Lie groups which are infinite-dimensional Lie groups	title	Pro-Lie groups which are infinite-dimensional Lie groups		
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	id	id-3174667893738585980	id	id8491315012869687050		
	abstract		abstract	A pro-Lie group is a projective limit of a family of finite-dimensional Lie groups. In this note we show that a pro-Lie group SG is a Lie group in the sense that its topology is compatible with a smooth manifold structure for which the group operations are smooth if and only if SG is locally contractible. We also characterize the corresponding pro-Lie algebras in various ways. Furthermore, we characterize those pro-Lie groups which are locally exponential, that is, they are Lie groups with a smooth exponential function which maps a zero neighborhood in the Lie algebra diffeomorphically onto an open identity neighborhood of the group.		
	versions		versions			