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Locally minimal topological groups and their embeddings into products of σ -bounded groups

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Abstract: It is proven that an infinite-dimensional Banach space (considered as an Abelian topological group) is not topologically isomorphic to a subgroup of a product of σ -compact (or more generally, σ -bounded) topological groups. This answers a question of M. Tkachenko.

Keywords: ω -bounded group, σ -bounded group, σ -bounded group, Weil complete group, locally minimal group, Lie group

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