

M.G. Tkachenko

Complete \aleph_0 -bounded groups need not be \mathbb{R} -factorizable

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Abstract: We present an example of a complete \aleph_0 -bounded topological group H which is not \mathbb{R} -factorizable. In addition, every G_δ -set in the group H is open, but H is not Lindelöf.

Keywords: \mathbb{R} -factorizable group, \aleph_0 -bounded group, P -group, complete, Lindelöf

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