Bardyla, Serhii; Ravsky, Alex; Zdomskyy, Lyubomyr
A countably compact topological group with the non-countably pracompact square. (English)
Topology Appl. 279, Article ID 107251, 6 p. (2020)

Summary: Under Martin’s Axiom we construct a Boolean countably compact topological group whose square is not countably pracompact.

MSC:
22A05 Structure of general topological groups
54H11 Topological groups (topological aspects)
54B10 Product spaces in general topology
54G20 Countereexamples in general topology
54A35 Consistency and independence results in general topology

Keywords:
countably compact topological group; countably pracompact space; Martin’s axiom

Full Text: DOI

References:
[1] Banakh, T.; Ravsky, A., Feebly compact paratopological groups, preprint · Zbl 1412.22005
[19] Tkachenko, Mikhail, Productive properties in topological groups, preprint, (version April 18, 2013) · Zbl 1285.22006

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