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 Counterexamples 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]