Arhangel’skii, A. V.; van Mill, J.
Covering Tychonoff cubes by topological groups. (English) Zbl 1455.54020

Summary: Let $\tau$ be an uncountable cardinal. We prove that if $\mathcal{A}$ is a cover of the Tychonoff cube $I^\tau$ such that $|\mathcal{A}| \leq \tau$, then some element $A \in \mathcal{A}$ is not homeomorphic to a topological group.

MSC:
54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
54D40 Remainders in general topology
54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets)

Keywords:
Tychonoff cube; topological group; covering

Full Text: DOI

References:

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.