Arhangel’skiǐ, 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:

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