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Absolute countable compactness of products and topological groups. (English)

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First, some closed subspaces of $X \times Y$ are described that are absolutely countably compact (in the sense of *M. V. Matveev* [Topology Appl. 58, No. 1, 81-92 (1994; Zbl 0801.54021)]). Then it is proved that there is a separable, countably compact T_2 -group that is not absolutely countably compact (if $2^\omega < 2^{\omega_1}$ and 2^{ω_1} is sequentially compact, then the group can be constructed sequentially compact).

Reviewer: [Miroslav Hušek \(Praha\)](#)

MSC:

[54D20](#) Noncompact covering properties (paracompact, Lindelöf, etc.)

[54B10](#) Product spaces in general topology

[54H11](#) Topological groups (topological aspects)

[54D55](#) Sequential spaces

Keywords:

absolutely countably compact spaces; topological group

Full Text: [EuDML](#)