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Refining connected topological group topologies on Abelian torsion-free groups. (English)

Zbl 0895.54023

J. Pure Appl. Algebra 124, No. 1-3, 281-288 (1998).

The authors develop a technique for refining certain topological groups. The main result of the paper is: Theorem. Let G be a connected Abelian torsion-free group with weight less than or equal to \aleph_1 and cellularity less than or equal to \aleph_0 . Then G admits a strictly finer connected topological group topology satisfying the same cardinality restrictions.

Reviewer: R.Cowen (Gaborone)

MSC:

54H11 Topological groups (topological aspects)

22A05 Structure of general topological groups

54D05 Connected and locally connected spaces (general aspects)

54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets)

Cited in 1 Review
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