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Resolvability: A selective survey and some new results. (English) Zbl 0866.54004
Topology Appl. 74, No. 1-3, 149-167 (1996).

Summary: The authors give a brief introduction to the theory of spaces which are resolvable in the sense introduced by *E. Hewitt* [Duke Math. J. 10, 309-333 (1943; Zbl 0060.39407)]. The new results presented here are:

(A) A countably compact regular Hausdorff space without isolated points is ω -resolvable – that is, it admits an infinite family of pairwise disjoint dense subsets.

(B) Among Tikhonov topologies without isolated points on a fixed set, no pseudocompact topology is maximal.

MSC:

- 54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
- 54-02 Research exposition (monographs, survey articles) pertaining to general topology
- 54C05 Continuous maps
- 54G10 P -spaces
- 22A05 Structure of general topological groups
- 54D10 Lower separation axioms (T_0 – T_3 , etc.)
- 54H11 Topological groups (topological aspects)

Cited in **4** Reviews
Cited in **30** Documents

Keywords:

resolvable topological space; resolvable topological group; κ -resolvable space; maximal topology; maximal Tikhonov topology; countably compact; space without isolated points; pseudocompact

Full Text: [DOI](#)

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