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Metrizability of certain point-countable unions. (English) Zbl 1032.54017
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The author considers modifications of certain metrizability theorems for spaces having a point-countable cover by metrizable subspaces which determines the topology of the space. The modifications are obtained by replacing the assumption that the point-countable cover determines the topology with a weaker assumption that the topology is determined by the collection of all the finite unions of the elements of this cover.

Reviewer: Jozef Chaber (Warszawa)

MSC:

54E35 Metric spaces, metrizability
54B15 Quotient spaces, decompositions in general topology
54D55 Sequential spaces

Keywords:

metrizability; weak topology; sequential space; sequential fan; Arens' space