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Compact L-spaces and right topological groups. (English) Zbl 1027.54503

Summary: The continuum hypothesis implies that there is a homogeneous compact L-space $X$. In fact, $X$ is a group in which the product is right-continuous. Under ♣, one can get such an $X$ whose regular open algebra contains a Suslin tree.

MSC:
- 54H11 Topological groups (topological aspects)
- 54H20 Topological dynamics (MSC2010)
- 54D30 Compactness

Keywords:
L-space; right topological group; Haar measure; homogeneous space

Full Text: Link