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Expansive dynamics on locally compact groups. (English) Zbl 07428306
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Summary: Let \( G \) be a second countable, Hausdorff topological group. If \( G \) is locally compact, totally disconnected and \( T \) is an expansive automorphism then it is shown that the dynamical system \( (G, T) \) is topologically conjugate to the product of a symbolic full-shift on a finite number of symbols, a totally wandering, countable-state Markov shift and a permutation of a countable coset space of \( G \) that fixes the defining subgroup. In particular if the automorphism is transitive then \( G \) is compact and \( (G, T) \) is topologically conjugate to a full-shift on a finite number of symbols.

MSC:
37B10 Symbolic dynamics
54H11 Topological groups (topological aspects)

Keywords:
automorphisms; locally compact groups; symbolic dynamics

Full Text: DOI

References:

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