Kadri, Bilel
Characterization of topological groups by discrete cocompact subgroups. (English)
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Summary: A subgroup \( H \) of a topological group \( G \) is called cocompact (or uniform) if the quotient space \( G/\overline{H} \) is compact, where \( \overline{H} \) denotes the closure of \( H \) in \( G \). The aim of this note is to determine all topological groups with the property that every non-trivial discrete subgroup is cocompact.

MSC:
22D05 General properties and structure of locally compact groups
22E15 General properties and structure of real Lie groups

Keywords:
locally compact group; Lie group; torsion-free group; discrete subgroup; cocompact subgroup; subgroup of finite index

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References:

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