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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 $G/H$ 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:
limity compact group; Lie group; torsion-free group; discrete subgroup; cocompact subgroup; subgroup of finite index

Full Text: DOI

References:

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