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Summary: We present about twenty conjectures, problems and questions about flat manifolds. Many of them build the bridges between the flat world and representation theory of the finite groups, hyperbolic geometry and dynamical systems.

MSC:

20H15 Other geometric groups, including crystallographic groups
00A07 Problem books
53A35 Non-Euclidean differential geometry
57S30 Discontinuous groups of transformations
20F18 Nilpotent groups
53C27 Spin and Spin\(^c\) geometry
20F34 Fundamental groups and their automorphisms (group-theoretic aspects)
57N16 Geometric structures on manifolds of high or arbitrary dimension
05C25 Graphs and abstract algebra (groups, rings, fields, etc.)
51M05 Euclidean geometries (general) and generalizations
20F65 Geometric group theory

Keywords:
flat manifolds; torsion-free crystallographic groups; Bieberbach groups; holonomy groups; outer automorphism groups

Full Text: DOI

References:


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