

ABSTRACT

BARELY TRANSITIVE GROUPS

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A group G is called a barely transitive group if it acts transitively and faithfully on an infinite set and every orbit of every proper subgroup is finite.

A subgroup H of a group G is called a permutable subgroup, if H commutes with every subgroup of G . We showed that if an infinitely generated barely transitive group G has a permutable point stabilizer, then G is locally finite.

We proved that if a barely transitive group G has an abelian point stabilizer H , then G is isomorphic to one of the followings:

- (i) G is a metabelian locally finite p -group,
- (ii) G is a finitely generated quasi-finite group (in particular H is finite),
- (iii) G is a finitely generated group with a maximal normal subgroup N where N is a locally finite metabelian group. In particular, G/N is a quasi-finite simple group.

In all of the three cases, G is periodic.

Keywords: Barely transitive groups, Permutable subgroups.