

Can Pairs of Groups help the Classification of Groups?

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Abstract

P. Hall introduced the notion of isoclinism in order to classify groups of prime power order. The notion of isoclinism can be simulated for pairs (G, N) of groups, in which G is a group and N is a normal subgroup. This talk verifies the classification of some pairs of groups, when N is to be chosen a suitable subgroup. Then using this, we explain how this classification can be considered as the first step of screening for classification of some classes of groups.

Keywords: Pairs of groups, Isoclinism, Classification of groups.

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