

## عنوان مقاله:

On Marginal Automorphisms of a Group Fixing the Certain Subgroup

## محل انتشار:

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## خلاصه مقاله:

Let  $W$  be a variety of groups defined by a set  $W$  of laws and  $G$  be a finite  $p$ -group in  $W$ . The automorphism  $\alpha$  of a group  $G$  is said to be a marginal automorphism (with respect to  $W$ ), if for all  $x \in G$ ,  $x^{-1}\alpha(x) \in W^*(G)$ , where  $W^*(G)$  is the marginal subgroup of  $G$ . Let  $M, N$  be two normal subgroups of  $G$ . By  $\text{Aut}_M(G)$ , we mean the subgroup of  $\text{Aut}(G)$  consisting of all automorphisms which centralize  $G/M$ .  $\text{Aut}_N(G)$  is used to show the subgroup of  $\text{Aut}(G)$  consisting of all automorphisms which centralize  $N$ . We denote  $\text{Aut}_N(G) \cap \text{Aut}_M(G)$  by  $\text{Aut}_{MN}(G)$ . In this paper, we obtain a necessary (and sufficient condition that  $\text{Aut}_{W^*(G)} = \text{Aut}_{W^*(G)W^*(G)}(G)$ .

## کلمات کلیدی:

$W$ -nilpotent group, marginal automorphism, purely non-abelian group

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1741652>

