

## عنوان مقاله:

On weakly SS-quasinormal and hypercyclically embedded properties of finite groups

## محل انتشار:

فصلنامه تئوری گروهی، دوره 3، شماره 4 (سال: 1393)

تعداد صفحات اصل مقاله: 9

## نویسنده:

Tao Zhao - School of Science, Shandong University of Technology

## خلاصه مقاله:

A subgroup  $H$  is said to be  $s$ -permutable in a group  $G$ , if  $HP=PH$  holds for every Sylow subgroup  $P$  of  $G$ . If there exists a subgroup  $B$  of  $G$  such that  $HB=G$  and  $H$  permutes with every Sylow subgroup of  $B$ , then  $H$  is said to be SS-quasinormal in  $G$ . In this paper, we say that  $H$  is a weakly SS-quasinormal subgroup of  $G$ , if there is a normal subgroup  $T$  of  $G$  such that  $HT$  is  $s$ -permutable and  $H \cap T$  is SS-quasinormal in  $G$ . By assuming that some subgroups of  $G$  with prime power order have the weakly SS-quasinormal properties, we get some new characterizations about the hypercyclically embedded subgroups of  $G$ . A series of known results in the literature are unified and generalized.

## کلمات کلیدی:

$s$ -permutable, weakly SS-quasinormal,  $p$ -nilpotent, hypercyclically embedded

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1199619>

