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Title: The influence of $\mathfrak{F}_s$-quasinormality of subgroups on the structure of finite groups

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Let $\mathfrak{F}$ be a class of finite groups. A subgroup H of a finite group G is said to be $\mathfrak{F}_s$-quasinormal in G if there exists a normal subgroup T of G such that HT is s-permutable in G and $(H \cap T)H_G/H_G$ is contained in the $\mathfrak{F}$-hypercenter $Z_\infty^{\mathfrak{F}}(G/H_G)$ of G/H_G. In this paper, we investigate further the influence of $\mathfrak{F}_s$-quasinormality of some subgroups on the structure of finite groups. New characterization of some classes of finite groups are obtained.

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