

Title: On weakly σ -quasinormal subgroups of finite groups

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Let $\sigma = \{\sigma_i | i \in I\}$ be a partition of the set of all primes $\mathbb{P}$, and G be a finite group. A set $\mathcal{H}$ of subgroups of G is said to be a *complete Hall σ -set of G* if every member $\neq 1$ of $\mathcal{H}$ is a Hall σ_i -subgroup of G for some $i \in I$, and $\mathcal{H}$ contains exactly one Hall σ_i -subgroup of G for every i such that $\sigma_i \cap \pi(G) \neq \emptyset$. A group is said to be *σ -primary* if it is a finite σ_i -group for some i .

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