

**FINITE GROUPS WITH SOME PRIMARY SUBGROUPS
WEAKLY τ -QUASINORMAL***

BY

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Abstract. A subgroup H of a group G is said to be weakly τ -quasinormal in G if G has a subnormal subgroup T of G such that $G = HT$ and $H \cap T \leq H_{\tau G}$, where $H_{\tau G}$ is the subgroup generated by all those subgroups of H which are τ -quasinormal in G . In this paper we investigate the influence of weakly τ -quasinormal subgroups on the p -nilpotency and p -supersolvability of finite groups.

Mathematics Subject Classification 2010: 20D10, 20D15, 20D20.

Key words: weakly τ -quasinormal, p -nilpotent, p -supersolvable.

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