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摘要

关键词 [Sylow normalizer](#) [Supplement](#) [Wreath product](#)

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Finite groups in which Sylow normalizers admit supplements

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Abstract For a group G and a subgroup M of G , we say that a subgroup A of G is a supplement to M in G , if $GA=MA$. We prove that a finite group in which every Sylow normalizer admits a nilpotent supplement is solvable. In particular we confirm a conjecture of Buchthal. Moreover we investigate finite groups in which Sylow normalizers admit solvable supplements.

Key words [Sylow normalizer](#) [Supplement](#) [Wreath product](#)

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