

962-20-682

Joseph Evan* (jmevan@kings.edu), Department of Mathematics, King's College, Wilkes-Barre, PA 18711. *Subgroups that Permute with all Sylow Subgroups.*

Two subgroups A and B of a group G permute if $AB=BA$. A subgroup M of a finite group G is then called Sylow-permutable if for all Sylow subgroups S of G , M and S permute. We provide a characterization of Sylow-permutable subgroups of a direct product, and discuss related aspects of permutability in direct products. (Received September 20, 2000)