

Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-20-783 **Joseph Evan*** (jmevan@kings.edu), Department of Mathematics, King's College, Wilkes-Barre, PA 18711. *Properties of Subgroups of Direct Products that Satisfy the Frattini Argument.*

A subgroup S of a group G satisfies the Frattini Argument in G if for all normal subgroups N of G , we have G equal to the product of N with $N_G(N \cap S)$. In this talk, we will consider subgroups of direct products of finite solvable groups which satisfy the Frattini Argument. For a subgroup U of such a direct product, $G_1 \times G_2$, we will examine the structure of $\pi_i(G_i)/(U \cap G_i)$ where $i = 1, 2$ and π_i is the natural projection of $G_1 \times G_2$ onto G_i . (Received September 29, 2004)