

**FREE PROFINITE PRODUCTS OF PROSOLUBLE GROUPS
(JOINT WORK WITH K ERSOY).**

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Abstract:

Let C be a variety of finite groups and p a prime. Then the free pro- C product $G = \amalg_{i \in I} A_i$ for pro- p groups A_i splits as a semidirect product of the pro- p free product of the A_i and $O_p(G)$. There are counter-examples limiting possible generalizations.