

Trifactorized locally finite groups with $\text{min-}p$ for every prime p

A. Fransman*

University of Stellenbosch

af@sun.ac.za

B. Amberg and L. Kazarin

SAMS Subject Classification: Algebra

A group G is trifactorized if $G = AB = AC = BC$ with three subgroups A, B and C of G . Some structural theorems about trifactorized locally finite groups with minimum condition on p -subgroups for every prime p are proved. For instance, it is shown that G is locally supersoluble (locally nilpotent) if A and B are locally nilpotent and C is locally supersoluble (locally nilpotent).