Some $p$-coclass zero solvable groups

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Abstract

There is a natural notion of “descendant” for finite groups, where $G$ is a descendant of $G/N$ if $N$ is the last term in the lower central series of the Fitting subgroup of $G$, and $N$ is simple as a $G$-module. This generalizes the notion for $p$-groups and allows the discussion of coclass trees. While the generalized trees seem much more difficult to understand, a few easier examples are given with solvable groups.

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