ACTION OF A FROBENIUS-LIKE GROUP

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A slight generalization of the Frobenius group which we call a "Frobenius-like group" will be the object of this talk. More precisely, we consider nontrivial finite groups F and H so that H acts on F via automorphisms, F is nilpotent and [F,h] = F for all nonidentity elements $h \in H$. The semidirect product FH will be called a "Frobenius-like group". There have been a lot of research about the structure of solvable groups admitting a Frobenius group FH of automorphisms. In particular under some additional hypothesis it was shown that various properties of G, for instance the nilpotent length of G, are close to that of $C_G(H)$. I aim to present some recent results we obtained in the same direction when the Frobenius group FH is replaced by a a Frobenius-like group.