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Finite approximability with respect to conjugacy of free polynilpotent groups.
(Russian)

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Let $F_{\bar{c}}$ be the free polynilpotent group of class $\bar{c} = (c_1, c_2, \dots, c_e)$. It is known [V. N. Remeslennikov, V. G. Sokolov, Algebra Logika 9, 566-578 (1970; Zbl. 247.20026)] that every free solvable group ($F_{\bar{c}}$ for $\bar{c} = (1, 1, \dots, 1)$) is conjugacy separable. A. Sh. Malkhasyan and A. I. Mamuchishvili announced [in XVI All-Union Algebra Conf., Part 2, Leningrad (1981)] that every group $F_{\bar{c}}$ is conjugacy separable if every $c_i \leq 2$.

The author proves that every group $F_{\bar{c}}$ is conjugacy separable. The main instrument in his investigations is embedding of the group $F/\gamma_{n+1}R$, $R \triangleleft F$, into the twisted wreath product $W_n = A \text{ twr } F/\gamma_n R$, where A is a free abelian group. Such an embedding was constructed by the author earlier.

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