

**Shakhova, N.G.**

*Finite approximability of some groups with respect to conjugacy.* (Russian)  
Abelevy Gruppy Moduli 4, 159-168 (1986).

A group  $G$  is called a residually finite group with respect to conjugacy (i.e. FRC-group), if every two elements are conjugate in  $G$  if and only if the images of these elements are conjugate in the finite homomorphic images of the group  $G$ . A. I. Maltsev proved that from the property FRC for any finitely presented group the solvability of the conjugacy problem is following. A. L. Shmelkin asked, in which cases the property FRC has a solvable product. It is proved that the metabelian product of two abelian groups with finitely separated cyclic subgroups has the property FRC. (It is said that in a group  $G$  the cyclic subgroups are finitely separated if for any cyclic subgroup  $H$  of  $G$  and an element  $a \notin H$  there is a homomorphism  $\phi$  on a finite group for which  $\phi a \notin \phi H$ .)

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*AMS subject classification:* 20E26;20E22;20F24

*Keywords:* residually finite group; FRC-group; finite homomorphic images; finitely presented group; solvability; conjugacy problem; metabelian product; finitely separated cyclic subgroups