

Wong, P.C.; Tang, C.K.

Generalized free products of conjugacy-separable groups. (English)

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Authors' abstract: A group G is said to be conjugacy-separable if, for each pair of elements $x, y \in G$ such that x and y are not conjugate in G , there exists a finite homomorphic image \bar{G} of G such that the images of x and y are not conjugate in \bar{G} . In this paper, we show that certain tree products of conjugacy-separable groups amalgamating central subgroups are again conjugacy-separable. We then apply our results to show that certain tree products of polycyclic-by-finite groups and free-by-finite groups amalgamating central subgroups are again conjugacy-separable.

A.I.Budkin (Barnaul)

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