

Baumslag, Benjamin; Levin, Frank; Rosenberger, Gerhard

A cyclically pinched product of free groups which is not residually free. (English)

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Let A and B be free groups of rank 2 and w_1, w_2 be words in A and B , respectively, which are neither primitive nor proper powers. Two examples are given to show that the free product of A and B amalgamating w_1 and w_2 need not be residually free. This is in contrast with a result of G. Baumslag that if $\alpha : A \rightarrow B$ is an isomorphism such that $\alpha(w_1) = w_2$, then the free product of A and B amalgamating w_1 and w_2 is residually free.

F. Levin (Bochum)

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