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On amalgamated free products of residually p -finite groups. (English)

J. Algebra 162, No.1, 1-11 (1993).

From the summary: “We find a necessary and sufficient condition for an amalgamated free product of arbitrarily many isomorphic residually p -finite groups to be residually p -finite. We prove that this condition is sufficient for a free product of any finite number of residually p -finite groups, amalgamating a cyclic subgroup, to be residually p -finite. We observe that a group is potent, if it is residually p -finite, for all primes p . We prove that a free product of finitely many groups, amalgamating a maximal cyclic subgroup is potent, if each factor is either free or finitely generated, torsion-free, and nilpotent”.

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