

Centralizers in virtually free pro- p groups

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Results in pro- p group theory (Henn) show that the centralizers of finite subgroups play a very important role for its structure. For virtually free pro- p groups (i.e. pro- p groups with an open free pro- p subgroup) the cohomology of the centralizers of finite subgroups controls the cohomology of the group (see work of C.Scheiderer). In this talk we present the idea how to show that G modulo the normal closure of all the centralizers of finite subgroups is free pro- p whenever G is virtually free pro- p . Our proof relies on the Kurosh subgroup theorem for open subgroups of a free product of pro- p groups.

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