Seminário de Álgebra

Exponent of Self-similar finite p-groups

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Abstract. Let G be a finite p-group that admits a faithful, self-similar action on the p-ary rooted tree. We prove that if the set $\{g \in G; g^{p^n} = 1\}$ is a subgroup of G for some n, then G has exponet p^n. This applies in particular to regular, powerful, potent or power abelian p-groups.

This is joint work with Emerson de Melo