

1040-20-214

Miklos Abert* (abert@math.uchicago.edu). *On the dynamics of profinite actions.*

We analyze group actions on rooted trees in terms of dynamical properties of their action on the boundary of the tree.

In particular, we look at the growth of various invariants on chains of subgroups and geometric properties of the Schreier graphs of finite level actions, like the existence of an almost covering.

We address property tau, amenability, rank, Heegaard genus, invariant measures on Bernoulli actions, cost and the first L2 Betti number in the talk. (Received February 17, 2008)