

SIMPLE GROUPS OF INTERMEDIATE GROWTH

Volodymyr Nekrashevych

Texas A&M University, USA

nekrash@math.tamu.edu

We will describe a construction transforming an arbitrary non-free minimal action of the infinite dihedral group on the Cantor set into a finitely generated infinite periodic group. If the associated action has low complexity (is linearly repetitive), then the group is of intermediate growth. In particular, we construct the first examples of simple groups of intermediate growth.