

ON THE GROWTH OF TORSION IN HOMOLOGY OF FINITE INDEX SUBGROUPS

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There is a lot of interest regarding the growth of invariants of chains of finite index subgroups, e.g. the growth of Betti numbers, rank, deficiency and so on. In this talk I will consider the growth of another invariant: the size of the torsion subgroup in homology. I will focus on two main classes of groups where there has been recent progress: amenable groups (joint with Kar and Kropholler) and right angled groups (joint work with Abért and Gelander). The main tools are from combinatorial group theory and the notion of combinatorial cost.