On dimension growth of discrete groups Alexander Dranishnikov (University of Florida)

Abstract

We define the notion of dimension growth of infinite graphs in terms of coloring of vertices. We apply it to the Cayley graphs of finitely generated groups and make some computations. Then we show how some famous conjectures in Topology and Algebra can be reduced to an estimate of the dimension growth of a group. This is a joint work with M. Sapir.