Seminário de Álgebra

Sigma-invariants of Artin groups

Kisnney Almeida
UEFS

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Abstract. Sigma-invariants are homological and homotopical invariants of finitely generated groups that were defined in the eighties and may be used to decide if a given subgroup above the commutators inherits finiteness properties of the group. Since that time, a lot of effort has been made to compute these invariants for diffent classes of groups, since that is usually not a simple task. Artin groups form a large class of groups, combinatorially constructed from underlying graphs and source of interesting examples in geometry and group theory. The Sigma-invariants of Artin groups are far from being completely computed, although there are some partial results. In our talk we will present the basic definitions and results on Sigma theory and then talk about the case of Artin groups, including some recent results.