

Non-self-similarity of some finitely presented metabelian groups

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A group G is said to be self-similar if it is a state-closed subgroup of the group of automorphisms of the one-rooted m -regular tree, for some m . In 2004, Nekrashevych and Sidki produced a method for constructing self-similar groups based on the notion of virtual endomorphisms. On the other hand, in 1980, Bieri and Strebel defined a geometric invariant used to classify finitely presented metabelian groups. In this talk I intend to explore how, together with professor Dessislava Kochloukova, we combined virtual endomorphisms to the Bieri-Strebel invariant to obtain new results about the non self-similarity of finitely presented metabelian groups.

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