Al@Bicocca seminar

You are all welcome to the next bite of the series

"Al@Bicocca"

which is meant to give you a small taste of the Algebra at Bicocca and beyond



30 April 2025 11.30 (UTC+1)

Online venue: WebEx

University of Milano-Bicocca Via R. Cozzi 55 Milano (IT)

Organizers:

Marco Barbieri Marco Fusari Nicola Grittini Ettore Marmo Francesco Matucci Matteo Tarocchi

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Subgroups of Bestvina-Brady groups

Abstract: Right-angled Artin groups (RAAGs) form a mysterious and rich class of groups that interpolates between the free groups and the free abelian groups. They are defined by a given graph, with generators corresponding to its vertices and commutator relations imposed for adjacent vertices. Unlike the case of free (abelian) groups, a subgroup of a RAAG may not be RAAG itself. In this direction, in 1987, Carl Droms characterised the graphs for which every subgroup of the associated RAAG is itself a RAAG.

In this talk we will deal with a similar problem for certain normal subgroups of RAAGs, called Bestvina-Brady groups, which have been extensively studied over the last 20 years, as they provide counterexamples to several group-theoretic problems.