

Yash Lodha (Cornell, ex Binghamton)

Cube Complexes and Subgroups of Hyperbolic Groups

Abstract for the Combinatorics Seminar 2012 March 20

Interesting examples of hyperbolic groups can appear as fundamental groups of piece-wise Euclidean cube complexes that satisfy certain combinatorial conditions. I will try to illustrate one such example, and how Combinatorial Morse theory can be used to construct non-hyperbolic finitely presented subgroups of such hyperbolic groups.

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