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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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