

Construction of boundaries for non-positively curved complexes of groups.

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Abstract: In this talk, I will explain how one can construct a classifying space and a boundary for a group that is realised as the fundamental group of a non-positively curved complex of groups, out of such structures for its local groups. With such a boundary at hand, we prove a combination theorem that yields a procedure for getting hyperbolic groups as fundamental groups of complexes of hyperbolic groups. This construction also provides a description of their Gromov boundaries.