

Geometric Group Theory/Théorie géométrique des groupes

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Surface subgroups of hyperbolization of groups

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Abstract

This is a report on recent joint work with Noel Brady and Max Forester. We describe some techniques for finding surface subgroups for a specific class of 2-dimensional CAT(0) groups. These groups are obtained by *hyperbolization* of 2-dimensional combinatorial complexes, which entails replacing the 2-cells by Möbius bands or surfaces of negative Euler characteristic.