

Seminarium geometrów

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On the automorphism group of cyclic products of groups

Abstract: Graph products of groups are a construction that interpolates between direct products and free products, and contain well-known examples such as right-angled Coxeter groups and right-angled Artin groups. In this talk, I will present a form of rigidity for the automorphism group of certain graph products of groups. I will recall a construction due to Davis that allows us to understand graph products through their action on CAT(0) cube complexes, and explain how this action can sometimes extend to the whole automorphism group. Such an action can be used to completely compute the automorphism group of such graph products, and to show their acylindrical hyperbolicity. This is joint work with Anthony Genevois.