Geometry Seminar

www.math.uni.wroc.pl/dgt/

Monday, 18/11/2024, 14:15 WS

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Upper bound on the orders of non-parabolic finite subgroups of relatively hyperbolic groups

Abstract: An upper bound on the orders of finite subgroups of hyperbolic groups in terms of the hyperbolicity constant and the cardinal of a finite generating set is well known.

We give an upper bound on the orders of non-parabolic finite subgroups of relatively hyperbolic groups. This bound is given in terms of the isoperimetric constant, the hyperbolicity constant, and the "length" of a finite relative presentation P of the relatively hyperbolic group G. By a result of Dahmani, the first two constants can be algorithmically computed, given P and algorithms solving the word problem in each of the peripheral subgroups of G. Therefore the upper bound is computable under these conditions.

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Meeting ID: 967 6507 7409

Meeting password: "GS" (two letters) followed by the Euler characteristic of the closed orientable surface of genus 89.