Seminarium geometrów

Poniedziaek, 12.03.2018, 14:15, s. 604

Oleg Bogopolski (U. Düsseldorf)

Equations in acylindrically hyperbolic groups

Abstract: I'll give main definitions and explain some technique from the theory of acylindrically hyperbolic groups (AH-groups) developed by D. Osin. After that I'll explain my recent results:

1) A generalization of the periodicity theorem of Fine and Wilf for loxodromic elements in acylindrically hyperbolic groups.

2) A result on a uniform divergence of quasi-geodesics determined by loxodromic elements in AH-groups.

3) A result on solutions of certain equations in AH-groups.

4) A result on verbally (algebraically) closed AH-subgroups in finitely presented groups. This implies a solution of a conjecture of Myasnikov and Roman'kov.