Seminarium geometrów

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

Wtorek, 8.12.2020, 14:15, webminar

Damian Osajda (IMPAN)

Helly Groups

Abstract: A graph is *Helly* if each family of pairwise intersecting (combinatorial) balls has a non-empty intersection. Groups acting geometrically on such graphs are themselves called *Helly*. The family of such groups is vast, it contains: Gromov hyperbolic groups, CAT(0) cubical groups, Garside groups, FC type Artin groups, and others. On the other hand being Helly implies many important algorithmic and geometric features of the group. In particular, such groups act geometrically on spaces with convex geodesic bicombing, equipping them with a kind of CAT(0)-like structure. I will present basic properties and examples of Helly groups. The talk is based on joint work with Jérémie Chalopin, Victor Chepoi, Anthony Genevois, Hiroshi Hirai and, independently, with Jingyin Huang.

ZOOM meeting info:

Meeting ID: 945 9956 8132

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

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