

Seminarium geometrów

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Poniedziałek, 27.02.2023, 14:15 HS

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Virtual combination of relatively quasiconvex subgroups and separability properties

Abstract: Quasiconvex subgroups are basic building blocks of hyperbolic groups, and relatively quasiconvex subgroups play a similar role in relatively hyperbolic groups. If Q and R are relatively quasiconvex subgroups of a relatively hyperbolic group G then the intersection $Q \cap R$ will also be relatively quasiconvex, but the join $\langle Q, R \rangle$ may not be. I will discuss criteria for the existence of finite index subgroups $Q' \leq_f Q$ and $R' \leq_f R$ such that the “virtual join” $\langle Q', R' \rangle$ is relatively quasiconvex. This is closely related to separability properties of G and I will present applications to limit groups, Kleinian groups and fundamental groups of graphs of free groups with cyclic edge groups. The talk will be based on joint work with Lawk Mineh.

streaming via ZOOM:

Meeting ID: 967 6507 7409

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