Seminarium geometrów

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

Wtorek, 08.03.2022, 15:30 HS

Mateusz Więcek (PWr)

Multiorders in amenable group actions.

Abstract: In the talk I will present the definition of a multiorder on a countable group as well as some of the important properties of multiorders. By a *multiorder* on a countable group G we mean a probability measure ν on a collection of linear orders of type $\mathbb{Z}$ on G, invariant under the natural action of G on such orders. I will present two other ways of representing multiorders on a countable group: in a symbolic form and by so-called *anchored bijections* from $\mathbb{Z}$ to G. The latter one has already proved very useful in proving some theorems concerning entropy in amenable group actions. I will show a short proof of a theorem stating that on every countable amenable group, there exists a multiorder of entropy zero. Then I will also discuss an explicit construction of a multiorder based on a dynamical tiling system of G. The talk will be concluded by few examples of tiling-based multiorders and some applications of multiorders in proving various entropy properties of amenable groups actions.

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.