Seminarium geometrów

https://dgt.math.uni.wroc.pl/

Poniedziałek, 7.12.2026, 14:15 WS

Alexis Marchand (IMPAN)

Stable commutator length, spectral gaps, and negative curvature in groups

Abstract: Stable commutator length (scl) is a measure of homological complexity of group elements, with connections to many topics in group theory and geometric topology, including quasimorphisms, bounded cohomology, and circle actions. After giving a general introduction to scl, we will focus on spectral gaps and their relation with notions of negative curvature in group theory. We will present a geometric method to prove spectral gap results, giving a new proof of a theorem of Heuer on the spectral gap of scl in right-angled Artin groups. We will explain the idea of the method and show how it works in the special case of free groups.

Streaming via ZOOM:
Meeting ID: 677 2490 5828
Meeting password: 490803
Join meeting