

# Seminarium geometrów

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## Automatic continuity

Abstract: The automatic continuity problem asks the following question: Given two topological groups  $G$  and  $H$  and an abstract group homomorphism  $f$  between those, what are conditions on the groups  $G$  and  $H$ , such that  $f$  is automatically continuous? In this talk, we will give a historic motivation and an introduction to this problem, where  $G$  is topologically rich (e.g. locally compact, completely metrizable or Čech complete) and  $H$  is a discrete geometric group. We will then explain the problem of torsion in  $H$  and give some recent results in this case, especially where  $H$  is an automorphism group of some right-angled Artin group or a Graph product of groups.

*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.