Seminarium geometrów

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Poniedziałek, 26.01.2026, 14:15 WS

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Means on groups and degrees of commutativity

Abstract: Given a finite group G, one can count the proportion of pairs of elements in G that commute – giving a number, denoted $\mathrm{dc}(G)$, behaviour of which has been studied since the 1960s. Such a notion has straightforward generalisations to residually finite or amenable groups. To make sense of this for other infinite groups G, one needs to define some sort of a nice measure or a mean on G. In this talk, I will explain how such means – more specifically, finitely additive probability means that give the "correct" answer for cosets of subgroups – can be constructed. As an application of these methods, one can define $\mathrm{dc}(G)$ for any group G, and show that $\mathrm{dc}(G) > 0$ if and only if G is finite-by-abelian-by-finite.

This is joint work with Armando Martino.

Streaming via ZOOM:

Meeting ID: 677 2490 5828
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