Seminarium geometrów

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Poniedziałek, 30.11.2026, 14:15 WS

Martina Conte (FernUniversität in Hagen)

On the measure of verbal and definable sets in profinite groups

Abstract: Given a group G, any word in k variables gives rise to a word map from G^k to G. The study of word maps is an active field of research in group theory, and a natural question to consider is how many elements (in a suitable sense) of a given group can be written as images of a given word map.

In this talk I will report on joint work with Matteo Vannacci in which we investigate the (Haar) measure of the images of word maps in profinite groups, especially in free pro-p and free profinite groups. More generally, we also consider the measure of certain existentially definable sets in the same classes of groups.

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