לוגיקה, תורת הקבוצות וטופולוגיה

ההרצאה

are groups omega-categorical Dp-minimal nilpotent-by-finite

תינתן על-ידי

(HUJI) Kaplan Itay

תקציר: (joint work with Elad Levi and Pierre Simon) that proved Macpherson and Krupinski omega-categorical omega-stable groups are nilpotent-by-finite. We go to the other direction, and try to generalize (without the stability assumption by the much weaker assumption of Krupinski with Dobrowolski in two separate works, one with the NIP, other being generically-stable. We go to the other direction, and try to generalize (without the stability assumption by the much weaker assumption of Krupinski's first result (NIP omega-categorical groups with fsg are nilpotent-by-finite) to remove the fsg assumption. We succeed in the simplest NIP case, i.e., when the group is dp-minimal.

I will try to give a full proof of this result. All concepts will be defined during the talk, but some basic knowledge of model theory (e.g., omega categorical theories) might be helpful.