



ALEXEI FEST

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Elementary theory of certain linear groups

Friday, February 6, 2015

CUNY Graduate Center, Room 4102

2:30pm

Abstract:

In this talk I will present some recent results on characterization of omega-stable rings and torsion-free nilpotent groups (of finite Morley rank). Then I will discuss some applications of the techniques developed for the study of elementary theory of nilpotent groups to the study of elementary equivalence of certain non-nilpotent linear groups, such as the group of upper triangular matrices over a field of characteristic zero. If time permits I will talk about some work in progress on elementary theory of $SL(n, F)$ and $GL(n, F)$, for n greater than or equal to 3.

This is joint work with Alexei G. Miasnikov.