Groups, Logic, and Computation. GAGTA-2025

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Model theory of algebraic groups.

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Abstract:

The talk is focused on model theoretic questions of simple/reductive algebraic groups over arbitrary rings with emphasis on their elementary equivalence. We plan to survey the developments of the theory starting with last decade results on classical groups. The very recent results for isotropic case obtained by P. Gvozdevsky and E.Voronetzky will be outlined. If time permits, I will address the issue of anisotropic groups, which is a hard and tempting goal for further research.