

University of Ottawa, May 23-26, 2014

Workshop on Algebraic and Geometric Invariants of Linear Algebraic Groups and Homogeneous Spaces

ORGANIZERS

Vladimir Chernousov
University of Alberta

Kirill Zainoulline
University of Ottawa

In the last 10-15 years the theory of linear algebraic groups has witnessed an intrusion of the cohomological methods of modern algebraic geometry and algebraic topology. The workshop will focus at the following new emerging techniques and applications

- The proof of the Grothendieck-Serre conjecture based on the theory of affine Grassmannians
- Computation of generalized equivariant cohomology of projective homogeneous varieties, toric varieties and locally symmetric spaces

and will feature a unique combination of two introductory mini-courses aimed at graduate students and postdoctoral fellows given by ROMAN FEDOROV, **Kansas State University**, and KALLE KARU, **University of British Columbia**, and several research talks.

INVITED SPEAKERS

Alex Duncan
University of Michigan

Alexander Merkurjev
UCLA

Stefan Gille
University of Alberta

Andrei Rapinchuk
University of Virginia

Nikita Karpenko
University of Alberta

Julia Pevtsova
University of Washington

Daniel Krashen
University of Georgia

Zinovy Reichstein
University of British Columbia

Nicole Lemire
Western University

<http://www.fields.utoronto.ca/programs/scientific/13-14/invariants/>



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