

# Advances in Algebra and Applications

June 22–26, 2022, Minsk, Belarus

Belarusian State University, 4 Nezavisimosti avenue, Room 120

## Wednesday, June 22

10.00–10.15	S. Gorchinskiy, S. Lemeshevskii, D. Medvedev. Opening address
10.15–11.05	D. Osipov. Formal Bott–Thurston cocycle and a part of formal Riemann–Roch theorem
11.05–11.30	Coffee break
11.30–12.20	T. Panov. Polyhedral products, loop homology, and right-angled Coxeter groups
12.30–13.20	V. Przyjalkowski. Hodge level of weighted complete intersections
13.20–14.30	Lunch
14.30–15.20	Yu. Prokhorov. Singular Del Pezzo varieties
15.20–15.50	Coffee break
15.50–16.40	C. Shramov. Conic bundles
16.50–17.40	A. Pirutka. Recent progress on rationality (Zoom)

## Thursday, June 23

10.00–10.50	V. Yanchevskii. Henselian division algebras and reduced unitary Whitehead groups for outer forms of anisotropic algebraic groups of type $A_n$
10.50–11.20	Coffee break
11.20–12.10	A. Stavrova. Non-stable $K_1$ -functors and $R$ -equivalence (Zoom)
12.20–13.10	S. Gorchinskiy. Milnor $K$ -groups of nilpotent extensions
13.10–14.30	Lunch
14.30–15.20	N. Vavilov. Bounded generation of Chevalley groups, and around (Zoom)
15.20–15.50	Coffee break
15.50–16.40	V. Petrov. Isotropy of Tits construction (Zoom)
16.50–17.40	I. Loseu. Quantization and representations (Zoom)

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## Friday, June 24

10.00–10.50	V. Lunts. Algebraicity of vector fields over $\mathbb{C}$ and over $\mathbb{F}_p$
10.50–11.20	Coffee break
11.20–12.10	A. Zheglov. The Schur–Sato theory for quasi-elliptic rings and some of its applications
12.20–13.10	V. Kirichenko. Khovanskii–Pukhlikov rings and divided difference operators
13.10–14.30	Lunch
14.30–15.20	I. Arzhantsev. Gorenstein local algebras and additive actions on projective hypersurfaces
15.20–15.50	Coffee break
15.50–16.40	Yu. Tschinkel. Equivariant birational geometry and algebraic tori (Zoom)

## Saturday, June 25

10.00–10.50	I. Suprunenko. On the behaviour of unipotent elements from subsystem subgroups of small ranks in irreducible representations of the classical algebraic groups in positive characteristic
10.50–11.20	Coffee break
11.20–12.10	J.-P. Furter. Borel subgroups of the Cremona group (Zoom)
12.20–13.10	V. Popov. Realizing Root Systems, their Weyl Groups, and Root Lattices in Number Fields (Zoom)
13.10–14.30	Lunch
14.30–15.20	D. Timashev. Galois cohomology of real algebraic groups
15.20–15.50	Coffee break
15.50–16.40	A. Rapinchuk. Linear algebraic groups with good reduction and the genus problem (Zoom)

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Hotel “Minsk”, 11 Nezavisimosti avenue

## Sunday, June 26

10.00–10.50	V. Mazurov. Periodic groups saturated with finite simple groups (Zoom)
10.50–11.20	Coffee break
11.20–12.10	A. Mamontov. On periodic groups with a fixed set of element orders (Zoom)
12.20–13.10	M. Grechkoseeva. Recognition of finite groups by the set of element orders and related problems (Zoom)
13.10–14.30	Lunch
14.30–15.20	M. Vsemirnov. TBA (Zoom)
15.30–16.20	I. Panin. On Grothendieck–Serre conjecture in mixed characteristic (Zoom)