

The International Conference
"Algebra and Logic, Theory and Applications"
dedicated to the 80th anniversary
of Professor V. P. Shunkov

Krasnoyarsk, 21-27 July, 2013

Program Committee:

S.I. Adian	V.M. Levchuk (vice-chairman)
G.P. Agibalov	A.A. Makhnev
R.Zh. Aleev	V. D. Mazurov (chairman)
A.M. Arslanov	A.V. Mikhalev
V.A. Artamonov	M.R.R. Moghaddam
V.V. Bludov	A.Yu. Olshanskiy
L.A. Bokut	Ch. Parker
Yu. Chen	N.A. Peryaziev
N.S. Chernikov	N.D. Podufalov
G.P. Egorychev	V.N. Remeslennikov
Yu.L. Ershov	V.A. Roman'kov
M.M. Glukhov	N.S. Romanovski
S.S. Goncharov	A.V. Rozhkov
R.I. Grigorchuk	V.V. Rybakov
C.K. Gupta	I.P. Shestakov
K. Harada	L.N. Shevrin
H. Heineken	W.J. Shi
L.S. Kazarin	A.L. Shmelkin
O. Kegel	W.I. Suszczanski
V.A. Koibaev	E.P. Vdovin
P.S. Kolesnikov	M.V. Zaitsev
A.S. Kondratiev	D. Zeilberger
P.A. Krylov	J. Zhang
M. Kuzucuoglu	A.Kh. Zhurтов.
V.N. Latyshev	

Organizing Committee:

I.A. Chubarov	V.I. Senashov
E.B. Durakov	V.V. Shaidurov
S.G. Kolesnikov	A.K. Shlepin
A.M. Kytmanov	A.I. Sozutov
S.V. Larin	N.M. Suchkov
V.M. Levchuk (chairman)	A.V. Timofeenko
V.R. Mayer	Yu.Yu. Ushakov (sci. secretary)
Ya.N. Nuzhin	A.V. Vasiliev
A.M. Popov	E.N. Yakovleva
A.P. Pozhidaev	S.A. Zyubin.

Registration:

Sunday, July 21, 14:00-17:00

Monday, July 22, 09:00-10:30

The registration will take place at the room “34-17”
of Siberian Federal University
(Krasnoyarsk, Svobodniy avenue, 79)

SECTIONS:

Groups Theory, Room “BXA”

**Universal Algebra and Model Theory, Non-classical Logics: Room
“34–10”**

Rings and Modules, Room “БΦА”

Finite Groups and Geometries, Room “ 34–17”

Applied and Computer Algebra, Room “ 34–11”

SCIENTIFIC PROGRAM

Monday, July 22

10:30–10:45 **Opening**, Room “B101”

PLENARY TALKS, Room “B101”

10:50–11:30 *V. D. Mazurov (Novosibirsk)* Groups with defined orders of the elements

11:35–12:15 *K. Harada (Shizuoka, Japan)*. Simple Groups and Sylow Subgroups

12:20–13:00 *A. A. Makhnev (Yekaterinburg)* Distance-regular graphs with strongly regular neighbourhoods

13:00–14:30 **Lunch**

14:30–17:00 **SECTION TALKS** (cf. below)

17:00–17:20 **Coffee break**

17:20–18:00 *L. A. Bokut (Novosibirsk)* Two remarks on Gröbner—Shirshov bases method for associative and Lie algebras

18.40–21.00 **Welcome reception**

SECTION TALKS

Room “BXA” – Section: Group theory

14:30–14:45 *K. A. Filippov (Krasnoyarsk)* On Shunkov groups, saturated by simple three-dimensional unitary groups

14:45–15:00 *V. I. Senashov (Krasnoyarsk)* On almost layer-finite groups

15:00–15:15 *N. V. Maslova (Yekaterinburg)* On the nonabelian composition factors of a finite group, minimal with respect to a prime spectrum

15:15–15:30 *N. M. Suchkov (Krasnoyarsk)* On permutation groups with a finite dispersion parameter

- 15:30–15:45 *O. V. Brukhanov (Novosibirsk)* Nilpotent approximability of groups of three-dimensional Sol-varieties
- 15:45–16:00 *E. B. Durakov (Krasnoyarsk)* On certain near-domains, sharply doubly-transitive groups and Z^* -theorem.

Room “БФА” – Section: Rings and Modules

- 14:30–14:45 *A. P. Pozhidaev (Novosibirsk)* On certain classes of prime modular non-commutative Jordan superalgebras
- 14:45–15:10 *A. V. Klimakov (Moscow)* Homogeneous almost primitive elements of free non-associative algebras
- 15:10–15:25 *A. A. Petrov (Kirov)* On the variety of semirings with an idempotent multiplication
- 15:25–15:40 *A. N. Abyzov (Kazan)* I_0^* -modules
- 15:40–15:55 *E. A. Timoshenko (Tomsk)* Purely transcendental extensions of the field \mathbb{Q} as basis fields of scp-rings
- 15:55–16:10 *A. P. Elisova (Lesosibirsk)* Reductional theorems for local automorphisms and derivations of the Lie algebras of niltriangular matrices

Room “34-10” – Section: Universal Algebra and Model Theory, Non-classical Logics

- 14:30–14:45 *S. V. Babyonyshev (Krasnoyarsk)* Operator form for equivalence systems in abstract deductive systems
- 14:45–15:00 *A. K. Koscheeva (Izhevsk)* New constants for superintuitionistic logic $L3$
- 15:00–15:15 *D. M. Smyelyanskiy (Moscow)* The property of efficiency of an intuitionistic set theory, which contains the generalised Church thesis

Room “34-11” – Section: Applied and Computer Algebra

- 14:30–14:45 *N. G. Parvatov (Tomsk)* Polynomial substitutions and their cycles over a prime ring

- 14:45–15:00 *M. M. Glukhov (Moscow)* Application of Niederreiter-Shparlinskiy method of estimation of incomplete trigonometric sums to the sums over Galois rings
- 15:00–15:15 *R. A. Atnagulova (Ufa)* The factorisation problem for the case when one of the subalgebras consists of skew-symmetric matrices
- 15:15–15:30 *N. A. Koreshkov (Kazan)* Lie and Engel theorems for Lie sheafs

Further schedule will be made up by section committees.

Tuesday, July 23

PLENARY TALKS, Room “B101”

- 09:00–09:40 *A. Yu. Ol’shanskii (Nashville, USA — Moscow, Russia)* Asymptotic behaviour of subgroups of finitely generated groups
- 09:45–10:25 *O. Kegel (Freiburg, Germany)* Aspects of LARGE Groups
- 10:30–11:10 *Ch. Parker (Birmingham, UK)* On commuting graphs in finite groups
- 11:10–11:40 **Coffee break**
- 11:40–12:20 *N. S Chernikov (Kiev, Ukraine)* Shunkov groups with certain minimality conditions
- 12:25–13:05 *Yuqun Chen (Guangzhou, China)* Gröbner-Shirshov bases and complexity of plactic monoids
- 13:05–14:30 **Lunch**
- 14:30–16:00 **SECTION TALKS**
- 16:00–16:20 **Coffee break**
- 16:20–17:20 Session in honour of Prof. V. P. Shunkov
- 19:00–21:00 **Classical Music Hall: Organ Concert** (the bus leaves at 18:00)

Wednesday, July 24

PLENARY TALKS, Room “B101”

- 09:00–09:40 *E. I. Khukhro (Novosibirsk, Russia)* Problems of bounding of p -length and nilpotent length of finite solvable groups
- 09:45–10:25 *A. I. Sozutov (Krasnoyarsk)* Finiteness conditions and nonsimplicity tests for groups
- 10:30–11:10 *A. S. Kondratiev (Yekaterinburg)* Finite groups with a given prime graph
- 11:10–11:30 **Coffee break**
- 11:30–12:10 *M. M. Glukhov (Moscow)* On planar maps and their generalisation to finite fields.
- 12:15–12:55 *O. A. Starikova (Magadan)* Problems of classification of finite semifield planes, QF-schemes and quadrics of projective spaces
- 13:20–15:00 **Lunch**
- 15:00–15:40 *A. Kh. Zhurtoev (Nalchik)* Free action of periodic groups
- 15:40–16:00 **Coffee break**
- 16:00–18:00 **SECTION TALKS**
- 19:00–22:00 **Banquet**

Thursday, July 25

PLENARY TALKS, Room “B101”

- 09:40–10:20 *V. G. Bardakov (Novosibirsk)* On linearity and approximability by nilpotent groups of certain HNN-extensions
- 10:25–11:05 *V. I. Zenkov (Yekaterinburg)* On the intersection of Hall subgroups of finite groups
- 11:10–11:30 **Coffee break**
- 11:30–12:10 *G. S. Suleimanova (Abakan)* Normal structure and large abelian subgroups of unipotent subgroups of Lie type groups

12:15–12:55 *A. A. Popov (Novosibirsk)* Differentially simple algebras

12:55–15:00 **Lunch**

15:00 **SECTION TALKS, Coffee break**

Friday, July 26

PLENARY TALKS, Room “БΦА”

09:00–09:40 *M. M. Arslanov (Kazan)* Definable relations in the Turing degree structures

09:45–10:25 *V. A. Romankov (Omsk)* Existentially closed subgroups of free nilpotent groups

10:30–22:00 Excursion to the State Reservation “Stolby”

Saturday, July 27

PLENARY TALKS, Room “БΦА”

09:00–09:40 *M. Shahriari (Tabriz, Iran)* Equational Noetherian Algebras and Chain Conditions

09:45–10:25 *A. V. Rozhkov (Stavropol)* Shunkov finiteness conditions for automorphism groups of homogeneous trees

10:30 **Closing of the conference**