

SESSION OF THE SEMINAR "ALGEBRA i LOGIKA"

Dedicated to the 1000th session; a.m.: plenary reports, p.m.: sections on Group Theory, Ring Theory, and Mathematical Logic.

998th session. March 1, 1994.

PLENARY SESSION

- Yu. L. Ershov, Elementary theories of fields.
V. A. Roman'kov (Omsk), A swap conjecture of Tennant–Turner.
D. M. Smirnov, Interpretability of equational theories and strict Mal'tsev conditions.
I. P. Shestakov, Poisson superalgebras vs. Jordan superalgebras.

SECTIONS

Group Theory

- U. U. Umirbaev (Alma-Ata), Occurrence problems for free solvable groups.
S. A. Gurchenkov (Rubtsovsk), Varieties of lattice-ordered groups.
V. V. Bludov (Irkutsk), Locally nilpotent groups.
K. N. Ponomarev, Abstract isomorphisms of algebraic groups.
Ya. N. Nuzhin, The inverse problem of the Galois theory for some classical groups.

Ring Theory

- V. N. Zhelyabin, Jordan superalgebras with a solvable even part.
Yu. G. Penzin (Irkutsk), Tensor representations of algebras.
R. Kh. Vakhitov (Sterlitamak), Associator-dependent algebras.

Mathematical Logic

- S. V. Babenyshev (Krasnoyarsk), Solutions to logical equations in modal logic S4.2.
Yu. V. Bezgacheva (Krasnoyarsk), Temporary logic Lin TGrs.
N. A. Peryazev (Irkutsk), Complexity of Boolean functions in the class of polynomial polarized forms.

999th session. March 2, 1994.

PLENARY SESSION

- E. A. Palyutin, The structure of Horn theories admitting elimination of quantifiers.
A. S. Kondrat'yev (Ekaterinburg), Decomposition matrices for quasimple groups.
L. A. Bokut', Gröbner–Shirshov bases for Lie algebras.
B. A. Gorbunov, The Birkhoff–Mal'tsev problem on a description of lattices of quasivarieties.

SECTIONS

Group Theory

- A. A. Makhnev (Ekaterinburg), Extensions of partial geometries.
N. S. Romanovskii, Normal automorphisms of groups.
V. M. Levchuk (Krasnoyarsk), Some results on unipotent subgroups and congruence subgroups of Lie-type groups.
V. I. Trofimov (Ekaterinburg), Graphs of integrable maps.
A. I. Sozutov (Krasnoyarsk), Groups with the class of Frobenius-Abelian elements.
V. I. Zenkov (Ekaterinburg), Some problems from the *Kourovka Notebook*.
S. V. Varaksin (Barnaul), Lattice-ordered groups which are free over nilpotent groups.
A. V. Rozhkov (Cheliabinsk), Central series in some group of tree automorphisms.

Ring Theory

- A. Z. Anan'in, Geometrical insight into the classification of algebras.
E. N. Kuz'min, Bol algebras.

Mathematical Logic

- A. V. Mantsivoda (Irkutsk), Σ -programming: effective computations by logical tools.
V. A. Ursu (Kishinev), Quasi-identities of relatively free commutative Moufang loops of rank 3.
M. V. Korovina, Generalized computability on real numbers.
N. A. Kirpotina, Equivalence of superstructures of hereditarily finite lists over Boolean algebras.
Yu. V. Bezgatcheva (Krasnoyarsk), Admissible rules in temporary logics.

1000th session. March 3, 1994.

PLENARY SESSION

- A. T. Gainov and V. M. Pestunova, History of the seminar "Algebra i Logika."
Awards. President of the Foundation, Academician Yu. L. Ershov, awarded premiums (50,000 roubles each) for the best reports presented by students and probationers at the seminar "Algebra i Logika" in the 1990/91-93/94 academic years. Awarded are S. L. Bereznyuk, A. N. Koryukin, N. Yu. Makarenko, and N. A. Pisarenko.
V. T. Filippov, The function h and its applications to the study of structures of Mal'tsev and alternative algebras.
S. S. Goncharov, Computable numerations and classes.
V. V. Belyaev (Krasnoyarsk), Topologization of locally finite groups.
S. F. Kozhukhov (Tomsk), Automorphisms of torsion-free Abelian groups.

SECTIONS

Mathematical Logic

- A. G. Pinus, Rich and poor algebras and skeletons of varieties.
D. E. Pal'chunov, A semigroup of elementary types of Boolean algebras with distinguished ideals.
N. N. Kosovskii (St. Petersburg), Complexity of term computations with enumeration operator.
K. V. Adaricheva, Structure of congruence lattices of finite semilattices.