

Algebra and Model Theory 5. – Novosibirsk: Edition of NSTU, 2005. – 288 pp.

Contents

Introduction ... 3

School Programme ... 4

In memory of Sergey Zhurkov ... 7

I. Chajda, S. Radeleczki, On congruencies of algebras defined on sectionally pseudocomplemented lattices ... 8

E.S.Chibrikov, A right normed basis for free Lie (super)algebras ... 28

V.A. Churkin, Some groups of the continuum cardinality which have no faithful action on a countable set ... 39

M.A. Gazdanova, On strong 'realness of the group of lower triangular 6 x 6 matrices over the field of characteristic 2 ... 44

A.N. Koryukin, Root system E8 ... 54

N.Ya. Medvedev, On the quasivariety of orderable groups ... 73

N.Ya. Medvedev, M.A. Varaksina, Lattice orders of the group of AutQ ... 79

N.Ya. Medvedev, G.A. Kuryleva, Interpretation of arithmetic in the lattice of ideals of free abelian l-group with 3 generators ... 88

C.F. Nourani, Functorial String Models ... 109

E.V. Ovchinnikova, On abelian groupoids with images of small cardinalities ... 125

E.V. Ovchinnikova, S.V. Sudoplatov, On Generating Elements in Generic Algebras ... 132

A.G. Pinus, On the $3 +$ -conditional varieties, $E+$ -conditional pseudovarieties and the implicit operations on them ... 139

D.K. Ponomaryov, On Decomposability of Theories ... 162

A.M. Popova, S.V. Zhurkov, Group of Units of the Integer Group Ring of the Group $S L_2(3)$... 170

N.V. Silaeva, Root systems geometric realization ... 182

S.V. Sudoplatov, On Varieties of Generic Classes ... 204

D.A. Tusupov, Algorithmic dimensions and degree spectra in computable structures ... 209

Yu. Yu. Ushakov, Avaluation of the number of conugacy classes in the groups of Lie type ... 229

V. Verbovskiy, On expansions of a weakly o-minimal theory ... 237

A.A. Voevoda, A.V. Chekhonadskikh, On Metrics And Optimization In The Characteristic Roots Set Of An Automatic Control System ... 265

A.A. Voevoda, A.V. Chekhonadskikh, On Jacoby Matrix Rang Of Polynomial Coefficients-Roots Correspondence ... 275

Abstracts ... 281