IV INTERNATIONAL ALGEBRAIC CONFERENCE IN UKRAINE

The 4th International Algebraic Conference in Ukraine took place on August 04-09, 2003 at the Lviv Ivan Franko National University.

The Conference was organized jointly by the Lviv Ivan Franko National University, the Kyiv Taras Shevchenko National University and the Pidstryhach Institute for Applied Problems of Mechanics and Mathematics of National Academy of Sciences of Ukraine.

Organizing Committee: Ya.G.Prytula (chairman), V.I.Andriychuk, O.D.Artemovych, T.O.Banakh, M.Ya.Komarnytskyi, R.M.Kushnir, V.M.Kyrylych, V.M.Petrychkovych, M.V.Zabolotskyi, M.M.Zarichnyi, V.R.Zelisko.

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Professor Yu.A.Drozd opened the Conference. Vice-Rector of the Lviv Ivan Franko National University Professor B.Ya.Kotur took part in the Opening Ceremony. The Dean of the Faculty of Mechanics and Mathematics Ya.G.Prytula gave a lecture on the history of mathematics in Lviv.

More than 140 participants from 21 countries took part in the Conference. The participants gave 25 main talks and 80 section talks. The plenary lectures was delivered by V.M. Bondarenko (Kyiv) "Representations of bundles of semichains and dispersing representations of quivers", I. Burban (Kyiv) "Fourier-Mukai transform on a nodal Weierstrass cubic", V. Dlab (Ottawa) "Stratifications on algebras and their applications", Yu.A. Drozd (Kyiv) "Derived tame and wild algebras", M. Ferrero (Porto-Alegre) "Closed submodules of normalizing bimodules over semiprime rings", R.I. Grigorchuk (Moscow) "Friendly competitor of R. Thompson" (Speaker A. Żuk (Lyon)), P.M. Gudivok (Uzhgorod) "Modules over group rings and their applications", W. Hołubowski (Gliwice) "Groups of infinite matrices – theory and applications", E. Hrushovski (Jerusalem) "Difference schemes and the Frobenius automorphisms", A.A. Ivanov (Wrocław), "Finite covers of Cayley graphs", V.V. Kirichenko (Kyiv) "Quivers of associative rings", J. Krempa (Warsaw) "On lattices of subgroups", Z. Marciniak (Warsaw) "Torsion free subgroups of unit in ZG", "On lattices of subgroups", V.S. Mazorchuk (Uppsala) "Completing, twisting and approximating category $\mathcal{O}$", V. Nekrashevych (Kyiv) "Expanding endomorphisms of orbifolds", B.V. Novikov (Kharkiv) "Quasi-Frobenius semigroup algebras", A.Yu. Olshanskii (Vanderbilt Univ. and Moscow Univ.) "Self-normalized subgroups and the congruence extension property", I.S. Ponizovskii (St.-Petersburg) "Some matrix semigroups over a field – the-

ory and applications", Yu.M. Ryabukhin (Chisinau) "Radicals of algebras and structure theory (V. A. Andrunakievich)", V.V. Sergeichuk (Kyiv) "Canonical forms for congruence and *congruence", V.I. Sushchanski (Kyiv) "Automata, Groups and Lie algebras", V. I. Yanchevskii (Minsk) "Whitehead groups and groups of R-equivalence classes of linear algebraic groups of non-commutative classical type over some virtual fields", M.M. Zarichnyi (Lviv) "Algebraic aspects of asymptotic topology", A. Żuk (Lyon) "On the problems of Atiyah about L^2 Betti numbers".

Five parallel section worked simultaneously: "Representation Theory and Linear Algebra" (17 talks), "Group Theory" (13 talks), "Rings and Modules" (14 talks), "Algebraic Geometry, Number Theory and Topological Algebra" (18 talks), "Algebraic Systems, Model Theory and Applied Algebra" (18 talks).

The main section lectures (45 min.) was organized. Such lectures were given by the following participant: M.C.R. Butler (Liverpool) "Infinite rank integral representations of groups and orders of finite lattice type", N.I. Dubrovin (Vladimir) "Braid groups and the problem of embedding group rings of right oderable groups in a skew field", W. Herfort (Wien) "Virtually Free pro-p-Groups act on a pro-p tree with finite Vertex Stabilizers", O. Ganyushkin (Kyiv) "Combinatorics of the finite symmetric inverse semigroup", A.I. Kashu (Chisinau) "Torsions and equivalences in Morita contexts", V. Lyubashenko (Kyiv) "The 2-category of strong homotopy associative (A_∞) categories", Yu. P. Maturin (Lviv) "When is the lattice of I-radical complete?", S.A. Ovsienko (Kyiv) "On the notion of a Borel subalgebra", A.P. Petravchuk (Kyiv) "Lie algebras with complex structure", V.M. Petrogradsky (Ulyanovsk) "Growth of subalgebras for free restricted Lie algebras", W. Rump (Stuttgart) "L-functors and almost split sequences", S.V. Tikhonov (Minsk) "Division algebras on $\mathbf{P}^2$ with special ramification", P. Varbanets (Odesa) "The Laplace transform of the square in the additive problems with quadratic forms", N. T. Vorob'ev (Vitebsk) "Fitting classes with given properties of Hartley property", V. Usenko (Lugansk) "The Semigroup Complexes", B. V. Zabavsky (Lviv) "Stable rank of rings and Henriksen problems".

There was the social program including Welcome party, Conference dinner, some excursions, and a trip at the suburbs of Lviv.

The Book of Abstracts (containing more than 200 contributions) was published at the beginning of Conference.

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