

INTERNATIONAL CONFERENCE “ANALYSIS AND RELATED TOPICS”

The International Conference “Analysis and related topics” took place on November 17–20, 2005 at the Lviv Ivan Franko National University in Lviv, Ukraine. The Conference was devoted to S.Mazur centennial, W.Lyantse 85th anniversary and A.Gol’dberg 75th anniversary. All these outstanding mathematicians worked in the Lviv University, and W.Lyantse has been working by the present time.

The Conference was organized by the Lviv Ivan Franko National University and the Lviv Mathematical Society.

Organizing and Scientific Program Committee: Banakh T.O., Cheremnikh Eu.V., Chyzhykov I.E. (secretary), Favorov S.Yu., Guran I.Yo., Gorbachuk M.L., Grishyn A.F., Hryniv R.O., Khabibullin B.N., Kondratyuk A.A., Kyrylych V.M., Lopushansky O.V., Marchenko I.I., Maslyuchenko V.K., Mokhon’ko A.Z., Mykytyuk Ya.V., Plichko A.M., Protasov I.V., Prytula Ya.G., Rofe-Beketov F.S., Shermeta M.M., Shevchuk I.O., Skaskiv O.B., Storozh O.G., Zabolotskyi M.V., Zarichnyi M.M., Zelins’kyi Yu.B.

The Dean of Faculty of Mechanics and Mathematics Professor Myhailo Zarichnyi opened the Conference.

The program of the Conference consisted of plenary and sectional lectures. The plenary lectures have been delivered by S. Favorov (Kharkiv, Ukraine) “Zero sets of entire functions of exponential type”, M. Gorbachuk (Kyiv, Ukraine) “On the asymptotic behavior of orbits of a uniformly stable semigroup”, A. Grishin (Kharkiv, Ukraine) “Scaling of nonnegative matrices”, B. Khabibullin (Ufa, Russia) “On the representation of meromorphic functions”, W. Lyantse (Lviv, Ukraine) “Axioms IST. Popular exposition of foundations of nonstandard analysis”, M. Nudel’man (Odesa, Ukraine) “The characteristic functions of maximal dissipative operators and their application to investigation of non-homogeneous string and periodic Hamiltonian systems”, W. Pleśniak (Kraków, Poland) “Multivariate polynomial inequalities”, F. Rofe-Beketov (Kharkiv, Ukraine) “Inverse scattering problem on the axis for the Schrödinger equation systems with triangle potential”, A. Sedletsii (Moscow, Russia) “Classes of entire functions rapidly decreasing on real axis”, H. Stahl (Berlin, Germany) “Sets of minimal capacity and extremal domains”, P. Tamrazov (Kyiv, Ukraine) “Tchebotaröv problem”, Yu. Zelinskyi (Kyiv, Ukraine) “Combinatorial theorems in complex analysis”.

There were also three plenary lectures devoted to history of mathematics in Lviv: “Stanisław Mazur and Lviv Mathematical School” by Ya. Prytula, “A talk about Professor A. Gol’dberg” by A. Kondratyuk, “A word about our Teacher” (to 85th anniversary of Prof. Wladyslaw Lyantse) by O. Storozh. Professor M. Gorbachuk also gave a lecture “K. F. Gauss and his influence on the development of mathematics” for participants of the conference, lecturers and students of the Faculty of Mechanics and Mathematics.

Three parallel sections: Complex analysis, Functional analysis, Topological algebra and continuous fractions, worked simultaneously. There was also a Poster session which included about 20 posters. More than 120 scientists from 13 countries took part in the work of the sections, in particular: P. Agranovich (Kharkiv, Ukraine) “Asymptotic representations of subharmonic functions with masses in parabolas”, T. Banakh (Lviv, Ukraine) “Division and k th root theorems for Q -manifolds”, A. Bandura, O. Skaskiv (Lviv, Ukraine) “Entire functions of bounded

∇ -index”, L. Bazylevych, M. Zarichnyi (Lviv, Ukraine) “On the hyperspace of rotors in regular polygon”, D. Bodnar, V. Hladun (Ternopil’, Ukraine) “On perturbation stability of continued fractions with complex partial denominators”, B. Bokalo, I. Boyaryn, I. Guran (Lviv, Ukraine) “On PL -semilattices of Lowson”, T. Bulboacă (Cluj-Napoca, Romania) “Sandwich results for generalized Briot-Bouquet subordinations”, V. Buslaev (Moscow, Russia) “On Fabry’s theorem for orthogonal series”, Eu. Cheremnikh (Lviv, Ukraine) “On an analogue of the functional model for continuous spectrum”, I. Chyzhykov (Lviv, Ukraine) “Description of growth of nonvanishing analytic functions in disk”, V. Dilnyi (Drohobych, Ukraine) “On equivalence of some conditions for a weighted Hardy space”, S. Fedynyak (Lviv, Ukraine) “On zeroes of entire functions”, P. Filevych (Lviv, Ukraine) “Asymptotic relations between the Nevanlinna characteristic and logarithm of modulus of an entire function”, M. Hirnyk (Lviv, Ukraine) “The sharpness of the approximation of an subharmonic function by the logarithm of the modulus of an analytic function in Chebyshev metrics”, V. Gorbachuk (Kyiv, Ukraine) “On solvability of $(n+1)$ -times integrable Cauchy problem in the class of finite order and finite type entire vector-valued functions”, V. Gorodets’kyi, S. Drin’ (Chernivtsi, Ukraine) “Fourier transformation of a class of entire functions”, R. Hryniv (Lviv, Ukraine) “Inverse spectral problems for Bessel operators”, A. Il’inskii (Kharkiv, Ukraine) “On normal divisors of convex linear combinations of positively defined functions”, S. Kanas (Rzeszów, Poland) “On conformal representations of the interior of an ellipse”, O. Katkova (Kharkiv, Ukraine) “Multiple positivity and the Riemann zeta-function”, A. Kondratyuk, A. Khrystiyany (Lviv, Ukraine) “Holomorphic functions of finite λ -type in punctured planes”, V. Liskevich (Bristol’, the United Kingdom) “Positive solutions to semilinear and quasi-linear elliptic equations in unbounded domains”, Kh. Kuchmins’ka, S. Vozna, O. Sus’ (Lviv, Ukraine) “Correspondence between a formal double power series and a two-dimensional continued g -fraction”, S. Kuzhel (Kyiv, Ukraine) “One-dimensional Schrödinger operators with \mathcal{PT} -symmetric zero-range potentials”, A. Makin (Moscow, Russia) “Spectral analysis of a class of the Sturm-Liouville operators with regular boundary conditions”, I. Marchenko (Szczecin, Poland) “Deviations and strong asymptotic spots of meromorphic functions”, V.K. Maslyuchenko (Chernivtsi, Ukraine) “Relations between separate and common modifications of continuity”, Mashiyev R. (Dijarbakir, Turkey) “On Sobolev-Orlicz type inequality with variable summation exponent in R^N ”, V. Mykhailiuk (Chernivtsi, Ukraine) “Linear ordered compacts and point finite cellularity”, L. Plachta (Lviv, Ukraine) “Link diagrams, Seifert graphs and braid index”, A. Radyna (Minsk’, Belarus’) “Towards spline approximation on a group of adeles”, M. Rahimi-Ardabili (Tabriz, Iran) “Determination of potential of non-uniform rotating distorted configuration arbitrary structure”, A. Rashkovskii (Stavanger, Norway) “Pluricomplex Green functions with analytic singularities”, M. Sheremeta, M. Bordulyak, Yu. Trukhan (Lviv, Ukraine) “On zeros of derivatives of entire function”, O. Skaskiv, O. Zrum (Lviv, Ukraine) “Wiman’s inequality for random entire functions”, V. Strauss (Caracas, Venezuela) “On models for normal operators of D_{κ}^+ -class in Krein spaces”, O. Sumyk (Lviv, Ukraine) “Proof of the conjecture of Danikas and Ruscheweyh for close-to-convex polynomials of small degrees”, Yu. Sydorenko (Lviv, Ukraine) “Darboux theorem for generating operator of nonlinear the Schrödinger model”, Ya. Vasylykiv, S. Tarasyuk (Lviv, Ukraine) “On boundedness of integral means of Blaschke product logarithms”, B. Vynnytskyi, V. Sharan (Drohobych, Ukraine) “On Fourier coefficients of holomorphic functions

in the half-plane”, A. Vishnyakova (Kharkiv, Ukraine) “Some remarks about Hurwitz (stable) polynomials”, N. Zorii (Kyiv, Ukraine) “On equilibrium problems for potentials with external fields”.

There were some social events for participants: Welcome party, Conference dinner, Walking tour of the city.

The Book of Abstracts (containing about 160 contributions) was published before the beginning of the Conference.

Information about the Conference can be found on the web-page
<http://www.franko.lviv.ua/faculty/mechmat/conference/conf2005.htm>

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