

INTERNATIONAL CONFERENCE “COMPLEX ANALYSIS AND ITS APPLICATIONS”

The International Conference “Complex Analysis and its Applications” took place on May 26–29, 2003 at the Lviv Ivan Franko National University in Lviv, Ukraine.

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

Organizing and Scientific Program Committee: Bilokolos Eu.D., Chyzhykov I.E. (secretary), Favorov S.Yu., Ivashkovych S.M., Marchenko I.I., Mokhon'ko A.Z., Nikitin A.G., Parasyuk I.O., Prytula Ya.G., Prytula M.M., Sakhnovych O.L., Samoilenko V.G., Sedletskii A.M., Sheremeta M.M., Skaskiv O.B., Sydorenko Yu.M., Tamrazov P.M., Vynnytskyi B.V., Zabolotskyi M.V., Zarichnyi M.M.

Professor Myroslav Sheremeta opened the Conference. The Vice-Rector of the Lviv Ivan Franko National University Professor V. M. Kyrylych took part in the Opening Ceremony. The Dean of Faculty of Mechanics and Mathematics Ya. G. Prytula delivered a lecture on Lviv Mathematical school of the last two centuries.

The program of the Conference consisted of plenary and sectional lectures. The plenary lectures have been delivered by Eu. D. Belokolos (Kyiv, Ukraine) “Integrability of the Bardeen-Cooper-Schrieffer model and its generalizations”, A. V. Bratishchev (Rostov-on-Don, Russia) “Generalized Borel’s transformation and adjacent problems in the function theory”, A. F. Grishin (Kharkiv, Ukraine) “Indicators of subharmonic functions”, I. Laine (Joensuu, Finland) “Differential polynomials generated by linear differential equations”, J. Ławrynowicz (Łódź, Poland) “Fractals in complex analysis”, I. I. Marchenko (Kharkiv, Ukraine; Szczecin, Poland) “On Petrenko’s theory of growth of meromorphic functions”, A. Sakhnovich (Odessa, Ukraine), “Nonlinear equations and system theory methods: operator identities and explicit solutions”, A. M. Sedletskii (Moscow, Russia) “Distribution of zeros of the Mittag-Leffler function”, J. Siciak (Kraków, Poland) “Pluripolar hulls and pseudocontinuation”, N. Zorii (Kyiv, Ukraine) “On the solvability of the Gauss variational problem”. There were also three plenary lectures devoted to history of mathematics in Lviv: “A talk about Professor Władysław Orlicz (to the 100th anniversary)” by Ya. V. Mykytyuk, “A talk about Professor O. S. Kovan’ko (to the 110th anniversary)” by Ya. G. Prytula, “A talk about Professor I. G. Sokolov (to the 100th anniversary)” by B. V. Koval’chuk.

Three parallel sections, Analytic and subharmonic functions, Analysis and topology, Complex differential equations and integrable systems, worked simultaneously. More than 90 participants took part in the work of the sections, in particular: P.Z. Agranovich (Kharkiv, Ukraine) “Polynomial representation of subharmonic functions with masses in parabolic domains”, D.I. Bodnar (Ternopil’, Ukraine) “On convergence of a multidimensional J -fraction”, B. Bokalo (Lviv, Ukraine) “Properties of subspaces of almost continuous function spaces”, M. Bordulyak (Lviv, Ukraine) “An estimate of index of entire solutions for some linear differential equations”, I. Chyzhykov (Lviv, Ukraine) “Logarithmic derivative estimates and applications to differential equations”, S. Favorov (Kharkiv, Ukraine) “Almost periodic divisors and holomorphic functions”, P. Filevych (Lviv, Ukraine) “Some asymptotic properties of analytic and random analytic functions”, M. Hirnyk (Lviv, Ukraine) “Asymptotics of the logarithmic derivative of Dzhrbashyan canonical product”,

S. Kanas (Rzeszów, Poland) “Differential subordination related to domains bounded by conic sections”, V.K. Maslyuchenko (Chernivtsi, Ukraine) “On Baire’s classification of integrals, dependent on a parameter”, A.Z. Mokhon’ko (Lviv, Ukraine) “Estimate of logarithmic derivative of meromorphic function with logarithmic singularity”, V. Mykhailyuk (Chernivtsi, Ukraine) “Namioka’s property of KC -functions”, S. Plaksa (Kyiv, Ukraine) “An application of analytic functions to boundary problems for spatial potential fields and a steady streamline of the ideal fluid along axial-symmetric bodies”, M.M. Sheremeta (Lviv, Ukraine) “Asymptotic values of entire Dirichlet series with respect to its maximal term”, O.B. Skaskiv (Lviv, Ukraine) “Exact estimate of exceptional set in Erdős-Macintyre-Fenton theorem”, Yu.M. Sydorenko (Lviv, Ukraine), “Generating operators and nonlinear systems. The theory of exact solutions”, M.V. Zabolotskii (Lviv, Ukraine) “Regular behavior of logarithmic derivative of entire function of order zero”, M. Zarichnyi (Lviv, Ukraine) “Hyperspaces of convex compact subsets of the Tychonov cube”.

There were some social events for participants: Welcome party, Conference dinner, an excursion.

The Book of Abstracts (containing about 100 contributions) was published at the beginning of Conference.

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