

**INTERNATIONAL CONFERENCE “GEOMETRIC TOPOLOGY:
INFINITE-DIMENSIONAL TOPOLOGY, ABSOLUTE EXTENSORS,
APPLICATIONS”**

The International Conference “Geometric Topology: Infinite-Dimensional Topology, Absolute Extensors, Applications” took place on May 26–29 at the Lviv National University (Lviv, Ukraine).

The Conference was organized under the auspice of Lviv Ivan Franko National University. The Organizing/Program Committee: T. Banakh, R. Cauty, A. Chigogidze, J.E. Keesling, V. Kyrylych, Ya. Prytula, D. Repovš, O. Skaskiv, M. Zarichnyi.

Professor B. Kotur, Vice-Rector of the Lviv National University, Professors Z. Mardešić (University of Zagreb, Croatia), M. Zarichnyi, and Ya. Prytula (both Lviv University, Ukraine) took part in the Opening Ceremony. Professor Ya. Prytula, the Dean of Faculty of Mechanics and Mathematics, delivered a short lecture dedicated mostly to the history of the topological investigations in Lviv and, in particular, at the Lviv University. He remarked that many outstanding topologists, among them W. Sierpiński, A. Mazurkiewicz, B. Knaster, K. Kuratowski, worked in Lviv. Some topological problems were formulated in the “Scottish book”, the famous collection of mathematical problems written in Lviv.

The main speakers of the Conference delivered the following lectures: R. Cauty (Paris, France), “Retractes absolus de voisinage algebriques”, V. Chatyrko (Linköping, Sweden), “Compact deficiency and inductive compactness degree”, A. Idzik (Warsaw, Poland), “Knaster-Kuratowski-Mazurkiewicz Theorem is seventy five”, I. Ivančić (Zagreb, Croatia), L.R. Rubin (USA), “A Selection Theorem for simplex-valued maps”, S. Mardešić (Zagreb, Croatia), “On products in the shape category”, V.K. Maslyuchenko (Chernivtsi, Ukraine), “Sorgenfrey line is not a co-Baire space” (joint talk with V. Mykhaylyuk), I. Protasov (Kyiv, Ukraine), “Algebra in Stone-Čech compactification: applications to topologies on groups”, A. Zastrow (Gdańsk, Poland), “The shape-embedding condition for planar sets and for generalized covering spaces”, M. Zarichnyi (Lviv, Ukraine), “Asymptotic extension dimension”.

The topics covered by the Conference demonstrated that its title was rather too restrictive: three sections, Geometric Topology, Topological Algebra, Analysis worked parallelly. More than 50 mathematicians from 5 countries took part at the Conference. Let us randomly mention here some of the talks: W. Rosicki “On uniqueness of Cartesian products”, E.D. Tymchatyn, A. Zagorodnyuk “Free Banach space and its applications to the metric space theory”, L. Plakhta “ n -Similarity and n -adjacency of knots and satellite operations”, T. Radul, “Universal spaces related to some transfinite dimension”, I. Guran, “On cancellative topological semigroups”, S. Maksymenko, “Homotopy types of orbits of Morse functions on surfaces”, M. Bordulyak “Bounds for l -index of entire solutions of linear differential equations”, I. Chyzhykov “Approximation of subharmonic functions”, P. Filevych “On the Valiron theorem concerning relations between the maximum modulus and the maximal term of entire Dirichlet series”, A.A. Kondratyuk “On the Nevanlinna theory for meromorphic functions in annuli”, T. Salo, O.B. Skaskiv “On h -measure of exceptional sets in asymptotic equality of maximum and minimum modulus of entire Dirichlet series”, M.M. Sheremeta “On formal

power series with a condition on Gelfond-Leont'ev derivatives", M.V. Zabolots'kyi "Julia lines of entire functions".

The talk by Ya. Pitak and V. Taranenkova was devoted to applications of topological graphs in chemistry.

Professors T. Banakh, V. Maslyuchenko, M. Sheremeta, O. Skaskiv, M. Zabolots'kyi, M. Zarichnyi delivered series of joint talks with their disciples. Mostly due to their activity, many young mathematicians took part at the Conference.

The cultural program included the excursion in Lviv (27 May, 2004) and the bus excursion to the so-called Golden Circle (29 May, 2004) around Lviv: the old castles, Zolochiv, Pidhoretsky, Oles'ko.

The book of abstracts was published at the beginning of the Conference.

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