

Events

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TRADITIONAL INTERNATIONAL APRIL MATHEMATICAL CONFERENCE IN HONOR OF THE DAY OF SCIENCE WORKERS

On April 5–8, 2021, at the Institute of Mathematics and Mathematical Modeling (Almaty, Kazakhstan), Traditional International April Mathematical Conference in honor of the Day of Science Workers was held. These annual scientific conferences bring together the majority of actively working Kazakhstan mathematicians and a large circle of mathematicians from other countries with scientific ties with Kazakhstan.

The Objectives of the Traditional Conferences are:

- providing the mathematicians with opportunities for free exchange of information and opinions on the theory and practice in all types of mathematical research;
- acquaintance with the latest results of fundamental and applied mathematical research;
- discussing the current state and ways for the development of mathematical science in the world and in Kazakhstan, in particular, supporting the scientific mathematical community in Kazakhstan.

This year, the Conference was dedicated to the 75th anniversary of academician of the National Academy of Sciences of the Republic of Kazakhstan Tynysbek Sharipovich Kal'menov.

Due to restrictions caused by the COVID19 pandemic, the Conference was held online in the Zoom video conferencing system.

In total, more than 150 scientific reports included into the published collection of abstracts of the conference reports were presented. 17 plenary and 120 section reports were made at the Conference. The work was carried out in three sections:

- Differential equations, theory of functions and functional analysis (Section chairmen: Prof. A.T. Assanova, Prof. E.D. Nursultanov, Prof. M.A. Sadybekov): 52 reports were made;
- Algebra, mathematical logic and geometry (Section chairmen: Prof. B.S. Baizhanov, Prof. N.S. Dairbekov, Prof. A.S. Dzhumadil'daev): 30 reports were made;
- Mathematical modeling and equations of mathematical physics (Section chairmen: Prof. L.A. Alexeyeva, Prof. S.N. Kharin): 38 reports were made.

The plenary reports were especially representative this year. The plenary reports of the Conference were presented by:

Sh.A. Alimov (National University of Uzbekistan named after M. Ulugbek, Tashkent, Uzbekistan) “On solvability of hypersingular equations of peridynamics”;

Allaberen Ashyralyev (Near East University, Lefkosa (Nicosia), Mersin 10 Turkey) “Stability of hyperbolic-parabolic differential and difference equations with involution”;

V.I. Burenkov (S.M. Nikol'ski Mathematical Institute, Peoples' Friendship University of Russia) “Interpolation theorems for nonlinear operators for general spaces of Morrey type and their applications”;

S.I. Kabanikhin (Institute of computational mathematics and mathematical geophysics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia) “Interrelations of dynamic and spectral inverse problems with inverse scattering problems”;

T.Sh. Kal'menov (Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan) “Mixed Cauchy boundary value problem for noncharacteristically degenerate hyperbolic equation”;

A.I. Kozhanov (S.L. Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia) “Quasielliptic and quasiparabolic equations with weak degeneracy”;

E.I. Moiseev (M.V. Lomonosov Moscow State University, Moscow, Russia) “On development of school of A.V. Bitsadze of equations of mixed type”;

Nedyu Popivanov (Sofia University “St. Kliment Ohridski”, Sofia, Bulgaria) “Pohozaev Type Identity for some Nonlinear Mixed Type Equations”;

A.V. Pskhu (Institute of Applied Mathematics and Automation, Nalchik, Russia) “Integral transformations of Stankovich and their applications”;

L.S. Pulkina (Samara National Research University named after academician S.P. Korolev, Samara, Russia) “On some conditions for solvability of nonlocal problems”;

E.V. Radkevich (M.V. Lomonosov Moscow State University, Moscow, Russia) “Mathematical modeling of combustion process (resonances of Rauschenbach and Reynolds)”;

Michael Ruzhansky (Ghent University, Ghent, Belgium) “Noncommutative operator analysis”;

K.B. Sabitov (Sterlitamak Branch of Bashkir State University, Sterlitamak, Russia) “First boundary value problem for three-dimensional equation of mixed elliptic-hyperbolic type”;

A.A. Shkalikov (M.V. Lomonosov Moscow State University, Moscow, Russia) “On unconditional basis property of general ordinary differential operators”;

A.P. Soldatov (Federal Research Center “Information and Management”, Russian Academy of Sciences, Moscow, Russia) “Integral representations of solutions of first order elliptic systems on plane”;

Ya.T. Sultanaev (Bashkir State Pedagogical University named after M. Akhmedov, Ufa, Russia) “Asymptotics and spectral properties of differential operators”;

I.A. Taimanov (S.L. Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia) “Darboux-Moutard transformations and Poincaré-Miranda-Steklov operators”.

M.A. Sadybekov, General Director of the Institute of Mathematics and Mathematical Modeling, made a report on the main scientific achievements of academician Tynysbek Kal'menov.

The results of the conference confirmed the relevance of the research, the need to intensify efforts in the development of the presented scientific areas, as well as the particular importance of strengthening the role of international collaboration in fundamental mathematical research.

M.A. Sadybekov