Events

ONLINE WORKSHOP ON DIFFERENTIAL EQUATIONS AND FUNCTION SPACES, DEDICATED TO THE 80-TH ANNIVERSARY OF D.SC., PROFESSOR MIKHAIL L'VOVICH GOLDMAN

The workshop on differential equations and function spaces was held online from April 15 to 17, 2025 in the Vladikavkaz Scientific Center (VSC) of the Russian Academy of Siences (RAS).

This workshop is the second in 2025 in a series of workshops in the framework of the Operator Theory and Differential Equations (OTDE)-Workshops project: "Workshops on the operator theory, differential equations and their applications".

Workshop Organizers

- Department of General Control Problems, Faculty of Mechanics and Mathematics, M.V. Lomonosov Moscow State University (MSU);

- S.M. Nikolskii Mathematical Institute, Patrice Lumumba Peoples' Friendship University of Russia (RUDN University);

- Astana International University;

- North Caucasus Center for Mathematical Research of the VSC RAS;

- Southern Mathematical Institute of the VSC RAS.

Organizing Committee

- D.Sc., Professor **Anatoly Geogievich Kusraev** (VSC RAS);

- D.Sc., Professor **Georgii Georgievich Magaril-Il'yaev** (M.V. Lomonosov Moscow State University);

- D.Sc., Professor **Andrey Borisovich Muravnik** (S.M. Nikolskii Mathematical Institute, RUDN University).

Working group:

- Dr. **Elza Gizarovna Bakhtigareeva** (the S.M. Nikolskii Mathematical Institute, RUDN University);

- Dr. **Gulden Zhumabekkyzy Karshigina** (Astana International University);

- **Victoria Amurkhanovna Tamaeva** (North Caucasus Center for Mathematical Research of the VSC RAS), the secretary of the Organizing Committee;

- Dr. **Batradz Botazovich Tasoev** (Southern Mathematical Institute of the VSC RAS).

WORKSHOP PROGRAMME
April 15, 2025 / Tuesday

Moderator: D.Sc., Professor Georgii Georgievich Magaril-Ilyaev

15:00 − 15:15 Opening of the Workshop

Professor Georgii Georgievich Magaril-Ilyaev delivered a welcoming speech on behalf of the Organizing Committee.

Professor Tikhomirov Vladimir Mikhailovich spoke about the activities of Professor Mikhail L'vovich Goldman

15:20 − 15:55
D.Sc., Professor, Corresponding Member of the RAS
Besov Oleg Vladimirovich
"Estimates of the entropy numbers of the Sobolev embedding operator on a Hölder domain"

15:55 − 16:30 D.Sc., Professor, Foreign Member of the NAS of Kazakhstan
Burenkov Victor Ivanovich
"On joint scientific work with M.L. Goldman"

16:30 − 17:05 D.Sc., Professor Nazarov Alexander Ilyich
"Hardy-type inequalities with general cylindrical-spherical weights"

17:05 − 17:40 D.Sc., Professor, Corresponding Member of the RAS
Stepanov Vladimir Dmitrievich
"The space of fractional Riemann–Liouville potentials on the half-axis"

17:40 Discussions

April 16, 2025 / Wednesday

Moderator: D.Sc., Professor Kusraev Anatoly Georgievich

15:00 − 15:35 D.Sc., Professor, Academician of the NAS of Kazakhstan
Oinarov Ryskul
"Boundedness of a class of integral operators in Lebesgue spaces"

15:35 − 16:10 Dr. Tikhonov Sergey Yuryevich
"Absolute convergence of Fourier series"

16:10 – 16:45 D.Sc., Professor Muratov Mustafa Abdureshitovich
"Lower and upper Marcinkiewicz classes of measurable functions on the half-axis"

16:45 – 17:20 D.Sc., Professor Nursultanov Erlan Dautbekovich
"Network spaces and Hölder inequality"

17:20 Discussions.

April 17, 2025 / Thursday

Moderator: Dr. Pliev Marat Amurkhanovich

15:00 – 15:35 D.Sc., Associate Professor Avsyankin Oleg Gennadievich
"Some issues in the theory of integral operators in Morrey spaces"

15:35 – 16:10 D.Sc., Professor Bokayev Nurzhan Adilkhanovich
"On the embedding of the space of generalized fractional maximal functions and the space of the generalized Riesz potentials in rearrangement-invariant spaces"

16:10 – 16:45 Dr. Gogatishvili Amiran
"Weighted inequalities containing Hardy operators"

16:45 – 17:20 D.Sc., Professor, Corresponding Member of the NAS of Azerbaijan
Guliyev Vagif Sabirovich
"Lorentz boundedness criteria for commutators of the maximal operator on spaces of homogeneous type"

17:20 Discussions

More detailed information on the delivered talks can be found in
$https : //smath.ru/upload/iblock/001/Program\_Workshop\_G - ML80\_Rus\_1.pdf$ (in Russian).

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