Seminar on Analysis, Differential Equations and Mathematical Physics

Семинар «Seminar on Analysis, Differential Equations and Mathematical Physics»

Семинар по Анализу, дифференциальным уравнениям и математической физике «Seminar on Analysis, Differential Equations and Mathematical Physics» проводится регулярно с середины 2020 года. Организаторы и руководители: А.Н.Карапетянц и В.В.Кравченко. Ученый секретарь семинара: Т.М.Андреева.

Карапетянц
Алексей Николаевич

Кравченко
Владислав Викторович

На сегодняшний день, среди докладчиков - ученые из более чем 30 стран, аудитория участников также обширна, и количество варьируется от 40 до 120 человек. Некоторые видеозаписи семинаров достигают сотни и даже тысячи просмотров, как например, лекция В. Протасова, набравшая более 8400 просмотров. Научный онлайн семинар проводится регулярно раз в две недели, объявления о новых семинарах и видеозаписи предыдущих семинаров доступны на сайте https://msrn.sfedu.ru/sl.

Семинар объединяет математиков по всему миру

Лекторы семинара, 2024г.

25 July 2024

Stefan Ivkovic
Serbian Academy of Sciences and Arts, Serbia
On various classes of hypercyclic and topologically transitive operators on Banach spaces

11 July 2024

Erdal Karapinar
Atilim University, Turkey
Some remarks on the recent publications in the metric fixed point theory

27 June 2024

Ramón G. Plaza
National Autonomous University of Mexico, Mexico
Instability theory of stationary kink and anti-kink profiles for the sine-Gordon equation on a Y-junction graph

13 June 2024

Victor Kovtunenko
Karl-Franzens-Universität Graz, Austria
Well-posedness of the governing equations for quasi-linear viscoelastic model with pressure-dependent moduli in which both stress and strain appear linearly

30 May 2024

Amar Debbouche
8 Mai 1945 - Guelma University, Algeria
Solvability and Mittag–Leffler stability analysis for time fractional partial differential equations

6 May 2024

The Tuan Hoang
Vietnam Academy of Science and Technology, Vietnam
Separation of solutions and the attractivity of fractional-order positive linear delay systems with variable coefficients

2 May 2024

Milos Arsenovic
University of Belgrade, Serbia
Gradient estimates for harmonic and generalized harmonic functions

18 April 2024

Andrey Muravnik
Peoples' Friendship University, Russia
The Cauchy problem for parabolic differential-difference equations: integral representations of solutions and their long-time behavior

4 April 2024

Alexander Skubachevskii
Peoples' Friendship University, Russia
On smoothness of generalized eigenfunctions for differential-difference operators

21 March 2024

Igor Andrianov
Aachen University, Germany
Mathematical Models in Pure and Applied Mathematics

7 March 2024

Vladimir Nazaikinskii
Russian Academy of Sciences, Russia
Semiclassical asymptotics on stratified manifolds

22 February 2024

Andrei Lebedev
Belarusian State University, Belarus
How to calculate the roots of an arbitrary polynomial

Лекторы семинара, 2024г.

8 February 2024

Oleg Avsyankin
Southern Federal University, Russia
On algebras generated by integral operators with homogeneous kernels

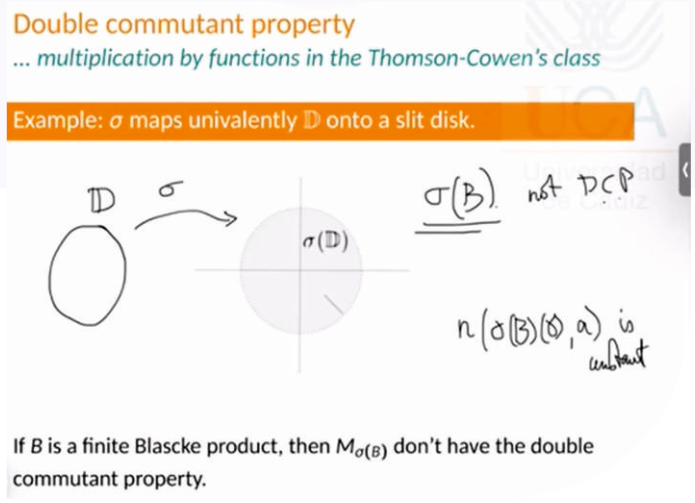
25 January 2024

Fernando León-Saavedra
University of Cádiz, Spain
Minimal commutant and double commutant property for analytic Toeplitz operators

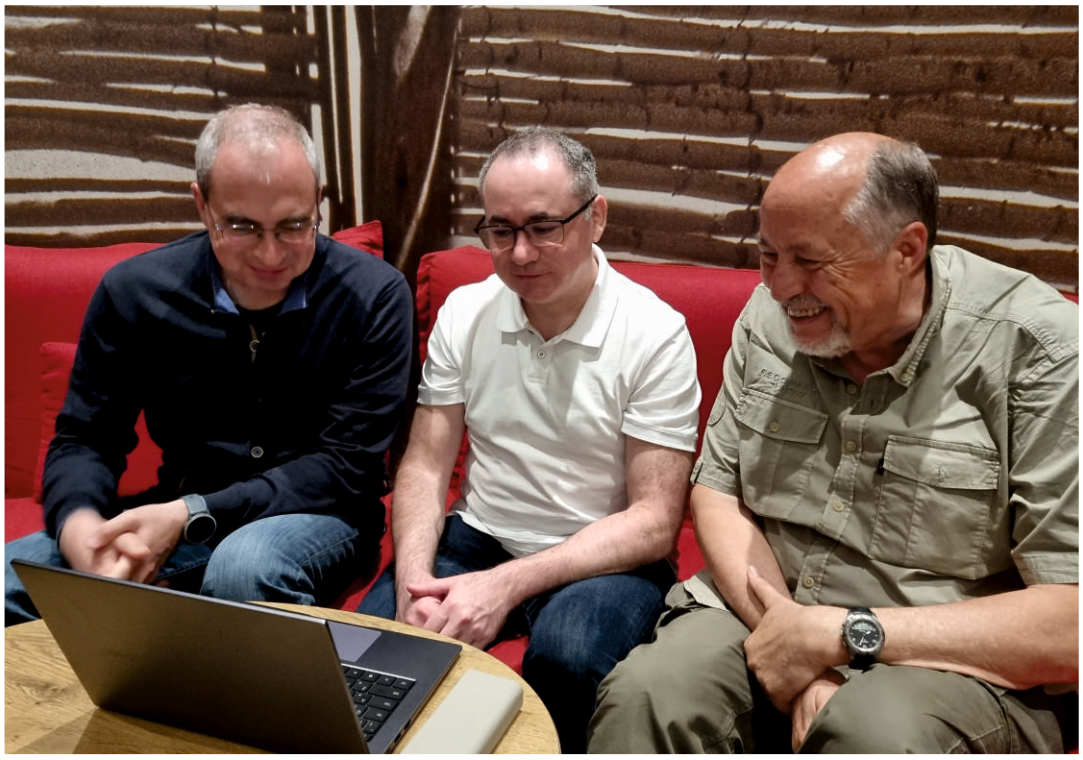
11 January 2024

Sergei Konyagin
Lomonosov Moscow State University, Russia
On the norm of the Riesz projection from L^∞ to L^p

Фрагмент лекции профессора Леон-Сааведры



Наши участники талантливы не только в математике.
На фотографиях — Стефан Ивкович, профессор Сербской академии наук и искусств и лектор семинара, а также пианист, сумевший завоевать более 30 различных наград Сербии и других стран.



Семинар проводится регулярно без перерывов, несмотря на плотный график поездок организаторов. На фото - Владислав Кравченко (слева), Алексей Карапетянц (в центре), Хельмут Малонек (справа) проводят семинар во время конференции OTHA Spring-2023 в Ереване.

Ученый секретарь семинара Татьяна Андреева с профессором Роландом Дудучавой на конференции OTHA Fall – 2023г.

Руководители семинара А.Н. Карапетянц (слева) и В.В. Кравченко (в центре) вместе с лектором семинара Фернандо Леон-Сааведрой (справа) проводят семинар во время конференции «From Classical to Modern Analysis» в 2024 году в г. Санлукар де Баррамеда, Испания.

Лекторы семинара, 2023г.

28 December 2023

Francisco Javier García Pacheco
University of Cadiz, Spain
On the Bishop-Phelps property

14 December 2023

Boris Osilenker
Moscow State University of Civil Engineering, Russia
Orthogonal polynomials. Fourier series in orthogonal polynomials. Trace formula and asymptotics of Forsythe determinant

30 November 2023

Yana Kinderknecht
University of Kassel, Germany
Subordination principle, stochastic solutions and Feynman-Kac formulae for generalized time fractional evolution equations

16 November 2023

Nicola Arcozzi
University of Bologna, Italy
Bi-parameter Potential theory and some applications to holomorphic spaces

2 November 2023

Armen Jerbashian
Institute of Mathematics, National Academy of Sciences of Armenia, Armenia
On the theory of functions of omega-bounded type

19 October 2023

Albert Shiryaev
Steklov Mathematical Institute of RAS and Moscow State University, Russia
On direct and inverse Kolmogorov equations for purely jump-like Markov processes and their generalizations

5 October 2023

Jussi Behrndt

Graz University of Technology, Austria

The Landau Hamiltonian with delta-potentials supported on curves

16 September 2023

Barry Simon

California Institute of Technology, United States of America

A Tale of Three Coauthors: Comparison of Ising Models

7 September 2023

Ernani de Sousa Ribeiro Júnior

Federal University of Ceará, Brazil

On Hitchin-Thorpe inequality for four-dimensional compact Ricci solitons

27 July 2023

Suheil Khoury

American University of Sharjah, United Arab Emirates

Fixed-point theory and Green's functions for the solution of DEs: An iterative strategy

13 July 2023

Jim Byrnes

Prometheus Inc., USA

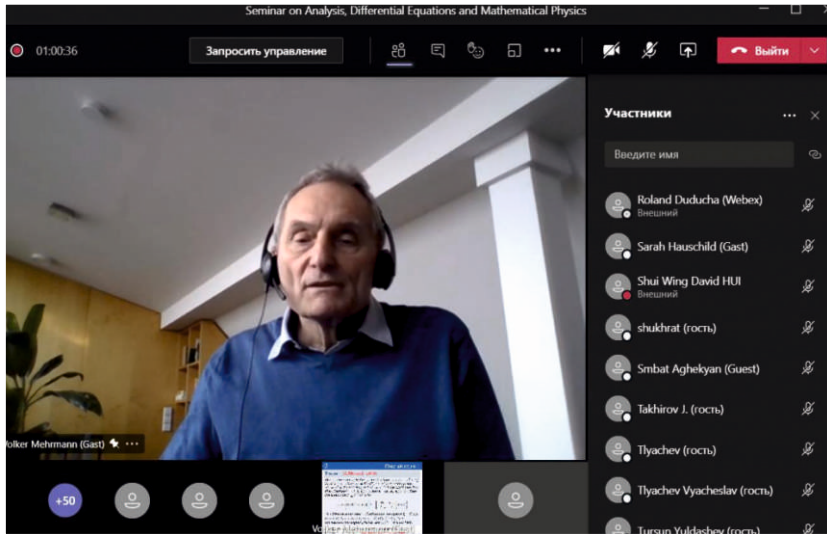
The Energy Spreading PONS Transform and its Applications

29 June 2023

Mohammad Sal Moslehian

Department of Pure Mathematics, Ferdowsi University of Mashhad, Iran

Hilbert C*-module independence

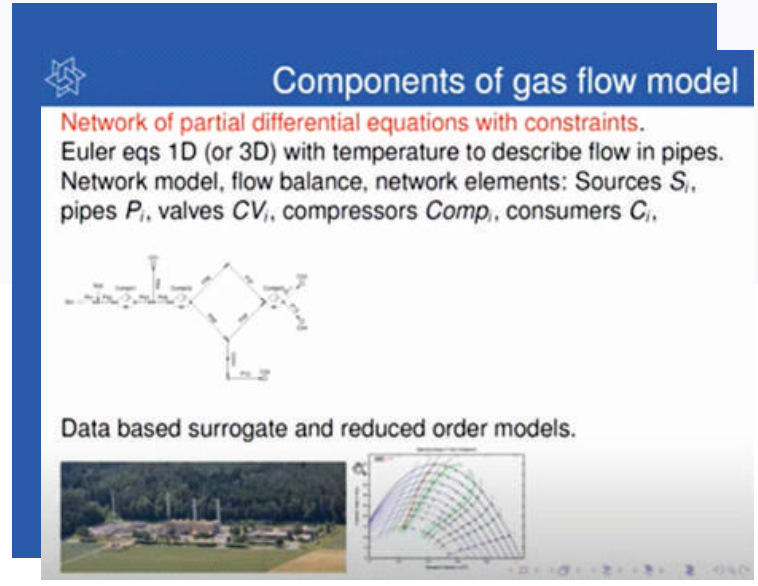


Президент European Mathematical Society Волкер Миерман прочитал лекцию об энергетическом моделировании, симуляции и оптимизации мультифизических систем.

«

Фрагмент презентации профессора Волкера Миермана. В 2019 г. профессор Миерман приезжал в Ростов-на-Дону для участия в III Кавказской конференции, организованной Региональным научно-образовательным математическим центром в кооперации с РАН и математическими обществами стран Кавказа.

»



15 June 2023

Ari Laptev
Imperial College London, UKA
Survey on current results in Theory of Lieb-Thirring inequalities

1 June 2023

Wolfgang Lusky
University of Paderborn, Germany
Toeplitz operators and Bergman projections on weighted spaces of holomorphic functions

18 May 2023

Taimanov Iskander
Sobolev Institute of Mathematics, Russia, and Novosibirsk State University, Russia
Formation of singularities of two-dimensional soliton equations represented by L,A,B-triples

4 May 2023

Daniel Girela
University of Malaga, Spain
Superposition operators on spaces of analytic functions

20 April 2023

Pavel Dubovski
Stevens Institute of Technology, USA
Quasi-Bessel equations: existence and hyper-dimensionality

6 April 2023

Mark Lawrence
Nazarbayev University, Kazakhstan
Partially holomorphic functions in several variables

23 March 2023

Sören Kraußhar
The University of Erfurt, Germany
A theory of reproducing Hardy and Bergman spaces in octonionic settings

9 March 2023

Isroil A. Ikromov
Institute of Mathematics named after V.I. Romanovsky, Uzbekistan
On the sharp estimates for convolution operators with oscillatory kernel

23 February 2023

Richard M. Aron
Kent State University, USA
Investigation of common properties of Lip and H∞ functions (preliminary report)

9 February 2023

Eravimangalam Krishnan Narayanan
Indian Institute of Science, India
Toeplitz operators on quotient domains

26 January 2023

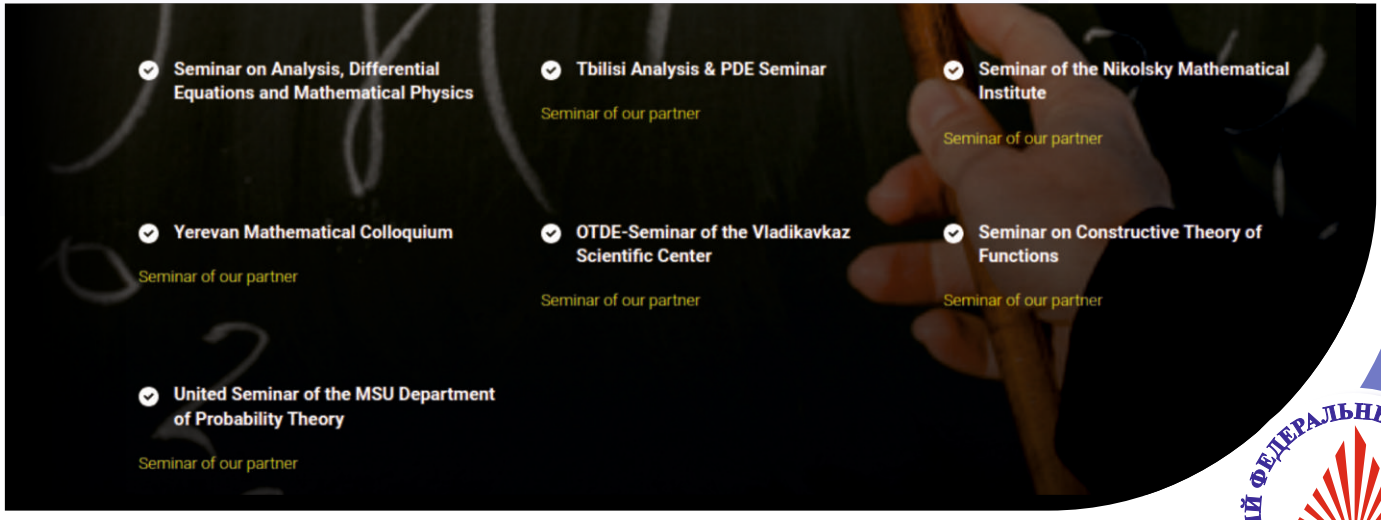
Konstantin Fedorovskiy
Lomonosov Moscow State University, Russia, and Saint Petersburg State University, Russia
Bianalytic polynomial approximations, Nevanlinna domains and univalent functions in model spaces

12 January 2023

Kim Tuan Vu
University of West Georgia, USA
Multi-term fractional integro-differential equations in power growth function spaces

Семинар «Seminar on Analysis, Differential Equations and Mathematical Physics»

Онлайн платформа семинаров (https://msrn.sfedu.ru/sl) объединяет не только семинары партнеров из России, но также Ереванский Коллоквиум (руководитель – Севак Мкртчян) и Тбилисский семинар по Анализу и PDE (руководитель – Роланд Дудучава). Эта платформа интегрирует также и Российские семинары: университетов РУДН («Научный семинар по дифференциальным и функционально-дифференциальным уравнениям», руководитель - А.Л.Скубачевский), МГУ («United Seminar of the Department of Probability Theory», руководитель – А.Н.Ширяев), СПбГУ («Конструктивная теория функций», руководитель – М.А.Скопина) и ВНЦ РАН («Теория операторов, дифференциальные уравнения и их приложения», руководитель – А.Г.Кусраев).



Лекторы семинара, 2022г.

22 December 2022

Pavel Kurasov
Stockholm University, Sweden
On spectral theory of metric graphs

8 December 2022

Grigori Rozenblum
Chalmers University of Technology, Sweden, The Euler International Mathematical Institute, Russia and University of Science and Technology "Sirius", Russia
Discrete spectrum of polynomially compact pseudodifferential operators and applications to the Neumann-Poincare operator in 3D elasticity

24 November 2022

Evgeny Panov
Yaroslav-the-Wise Novgorod State University, Veliky Novgorod, Russia
On solutions of a multi-phase Stefan-Riemann problem

10 November 2022

Vitalii Vol'pert
Institut Camille Jordan, France, and Nikol'skii Mathematical Institute of Peoples' Friendship University of Russia, Russia
Do biological species exist as mathematical solutions?

27 October 2022

Praveen Agarwal
Anand International College of Engineering, India
Extended Fractional Hypergeometric Function and Applications

13 October 2022

Alexey Kanel-Belov
Bar-Ilan University, Department of Mathematics, Israel
Distance between two subsets of a unit-volume convex body

29 September 2022

Xiao-Jun Yang
China University of Mining and Technology, China
On the theory of the subtrigonometric functions

15 September 2022

Viacheslav Yurko
Saratov State University, Russia
Inverse Spectral Problems for Differential Operators

1 September 2022

Alexei Rybkin
University of Alaska Fairbanks, USA
Norming constants of embedded bound states and bounded positon solutions of the Korteweg-de Vries equation

21 July 2022

Adolf Mirotin
Francisk Skorina Gomel State University, Belarus
To the Spectral Theory of Hausdorff Operators

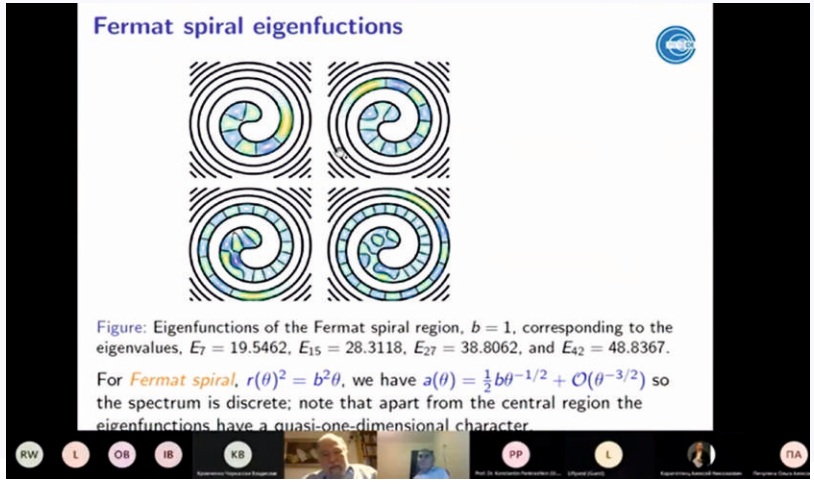
7 July 2022

Vladimir Protasov
Lomonosov Moscow State University, Russia,
and University of L'Aquila, Italy
Multivariate approximation and one problem of combinatorial number theory

23 June 2022

Oleg Kudryavtsev
Russian Customs Academy, Southern Federal University, Russia
A Simple Wiener-Hopf factorization method for pricing options with barriers in Levy-driven models

Чешский математик и научный директор Доплеровского института математической физики и прикладной математики, Экс-президент Европейского математического общества, Павел Экснер читает лекцию о спектральных свойствах лапласиана Дирихле в спиралевидных областях.



В рамках семинара выступают ведущие исследователи из разных стран мира, научные интересы которых связаны с анализом, дифференциальными уравнениями и математической физикой. Научный семинар математического центра открытый, в нем могут принять участие все желающие.

9 June 2022

Sergey Simakov
Moscow Institute of Physics and Technology, Russia
Multiscale modeling of cardiovascular system

26 May 2022

Valeriy Serov
University of Oulu, Finland
Recovery singularities in quasi-linear biharmonic operator

12 May 2022

Dobrokhotov Sergey
Ishlinsky Institute for Problems in Mechanics, Russian Academy of Sciences, Russia
Semiclassical Approximation with Compex Phases for Constructing Effective Plancherel-Rotach type asymptotics of 1-D and 2-D orthogonal polynomials

28 April 2022

Bondarenko Natalya
Samara National Research University, Saratov State University, Russia
Inverse spectral problem for the matrix Sturm-Liouville operator

14 April 2022

Armen Sergeev
Steklov Mathematical Institute of RAS, Russia, and MSU Faculty of Mechanics and Mathematics, Russia
Mathematical problems in the theory of topological insulators

31 March 2022

Viktor Burenkov
S.M. Nikol'skii Mathematical Institute, Russia
An analogue of Young's inequality for convolutions for general Morrey-type spaces

17 March 2022

Dmitry Millionschikov
MSU Faculty of Mechanics and Mathematics, Russia, and Gubkin University, National University of Oil and Gas, Russia
Characteristic Lie algebra of Klein-Gordon equation and higher symmetries

3 March 2022

Massimo Lanza de Cristoforis
University of Padova, Italy
Nonlinear composition operators in generalized Morrey spaces

17 February 2022

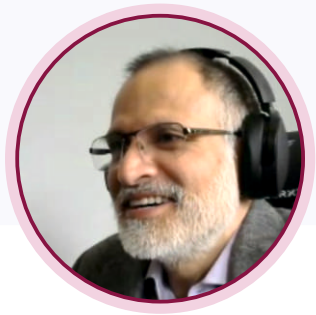
Sergei Grudsky
National Polytechnic Institute, Mexico
Asymptotics of eigenvalues and eigenvectors of Toeplitz matrices

3 February 2022

Maria Skopina
St. Petersburg State University, Russia, and Regional Mathematical Center SFedU, Russia
Wavelet Approximation in Orlicz Spaces

20 January 2022

Carsten Trunk
Technical University Ilmenau, Germany
Perturbations of periodic Sturm-Liouville operators



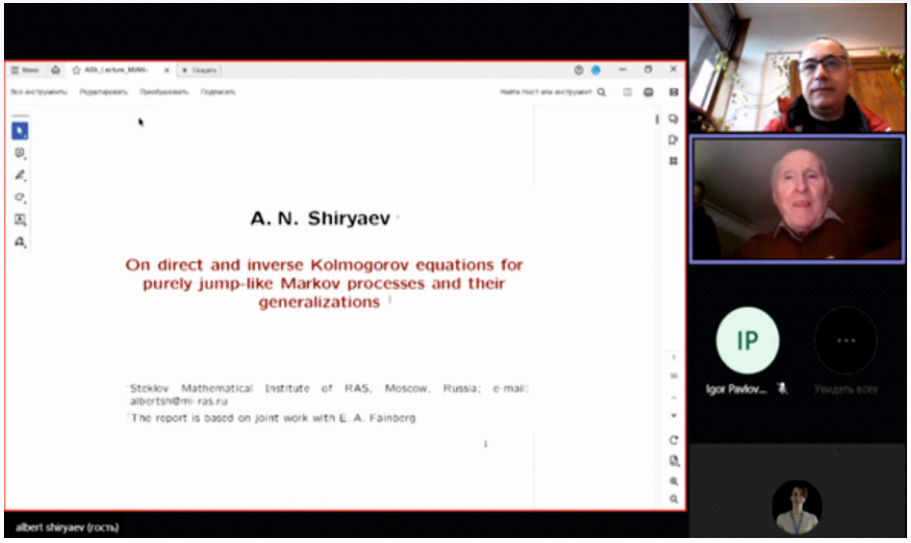
06 January 2022

Luis Octavio Silva
National Autonomous University of Mexico, Mexico
Oversampling in symmetric, regular de Branges spaces

Семинар «Seminar on Analysis, Differential Equations and Mathematical Physics»

Слушатели семинара - специалисты из ведущих научных и образовательных мировых центров России и других стран, в том числе аспиранты и студенты мехмата ЮФУ и молодые ученые.

На фото: Академик РАН А. Н. Ширяев и профессор А. Г. Сергеев – лекторы семинара, а также участники мероприятий ОТНА (на докладе академика Ширяева во время воркшопа ОТНА Fall-2023).



Академик РАН А. Н. Ширяев выступает на семинаре с лекцией, посвященной прямым и обратным уравнениям Колмогорова для чисто скачкообразных марковских процессов и их обобщениям.

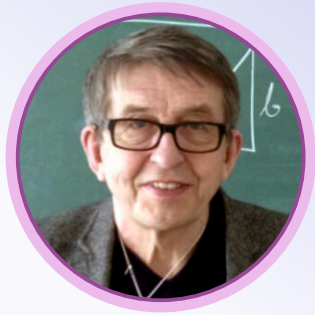
Лекторы семинара, 2021г.

23 December 2021

Yuri Luchko
Berlin University of Applied Sciences and Technology, Germany
Subordination principle for the space-time-fractional diffusion equations

09 December 2021

Tuncay Aktosun
University of Texas at Arlington, USA
Inverse scattering for the half line matrix Schrödinger operator pseudodifferential operators and applications to the Neumann-Poincare operator in 3D elasticity



25 November 2021

Lars-Erik Persson
UiT The Arctic University of Norway and Karlstad University, Sweden
On Hardy-Type Inequalities as an intellectual adventure for 100 years

11 November 2021

Swanhild Bernstein
Technical University of Bergakademie Freiberg, Germany
Dirac-type operators and applications

28 October 2021

Vladimir Mityushev
Cracow University of Technology, Poland
Riemann-Hilbert problem for a multiply connected domain and its applications to the effective properties of 2D random composites

14 October 2021

Roman Novikov
Centre de Mathématiques Appliquées, École Polytechnique, France
The Gelfand-Krein-Levitan problem and passive imaging

30 September 2021

Ricardo Abreu Blaya
Autonomous University of Guerrero, Mexico
Sets of uniqueness for inframonogenic functions

16 September 2021

Laurent Baratchart
Project APICS, INRIA, France
Pseudo-holomorphic functions and Dirichlet problems on planar domains with rectifiable boundary

02 September 2021

Elijah Liflyand
Bar-Ilan University, Israel
Wiener algebras and trigonometric series in a coordinated fashion

22 July 2021

Ferenc Weisz
Eotvos University, Hungary
Higher dimensional summability and Lebesgue points

08 July 2021

Yuri Antipov
Louisiana State University, USA
Free boundary problems and Riemann-Hilbert problems on Riemann surfaces

24 June 2021

Lars Diening
Bielefeld University, Germany
Elliptic equations with degenerate weights

10 June 2021

Winfried Sickel
Friedrich-Schiller-Universität Jena, Germany
On the regularity of characteristic functions

27 May 2021

Konstantin Dyakonov
ICREA & Universitat de Barcelona, Spain
Fewnomials in L1 and their geometry

13 May 2021

Maxim Zinchenko
University of New Mexico, USA
Nonlinear Fourier Analysis

29 April 2021

Michael Ruzhansky
Ghent University, Belgium
Nonharmonic pseudo-differential analysis

15 April 2021

Tibor K. Pogány
University of Rijeka, Croatia & Óbuda University, Hungary
Hilbert-type inequalities with non-homogeneous kernel: another view

1 April 2021

Lubos Pick
Charles University, Czech Republic
On fractional Orlicz-Sobolev spaces

18 March 2021

Helmuth Malonek
University of Aveiro, Portugal
A Sturm-Liouville equation on the crossroads of discrete and continuous hypercomplex analysis

04 March 2021

Stefan Samko & Humberto Rafeiro
Algarve University, Portugal & United Arab Emirates University, UAE
Grand Lebesgue space for $p=\infty$ and applications or a new life of a 36 years old result of Nikolay Karapetyants and Boris Rubin

18 February 2021

Volker Mehrmann
Technical University of Berlin, Germany
Energy based modeling, simulation and optimization of multiphysics systems

04 February 2021

Sundaram Thangavelu
Indian Institute of Science, India
On the decay of spectral projections associated to Laplacians on certain Riemannian manifolds

21 January 2021

Aleksey Kostenko
University of Ljubljana, Slovenia & University of Vienna, Austria
Kirchhoff Laplacians on metric graphs

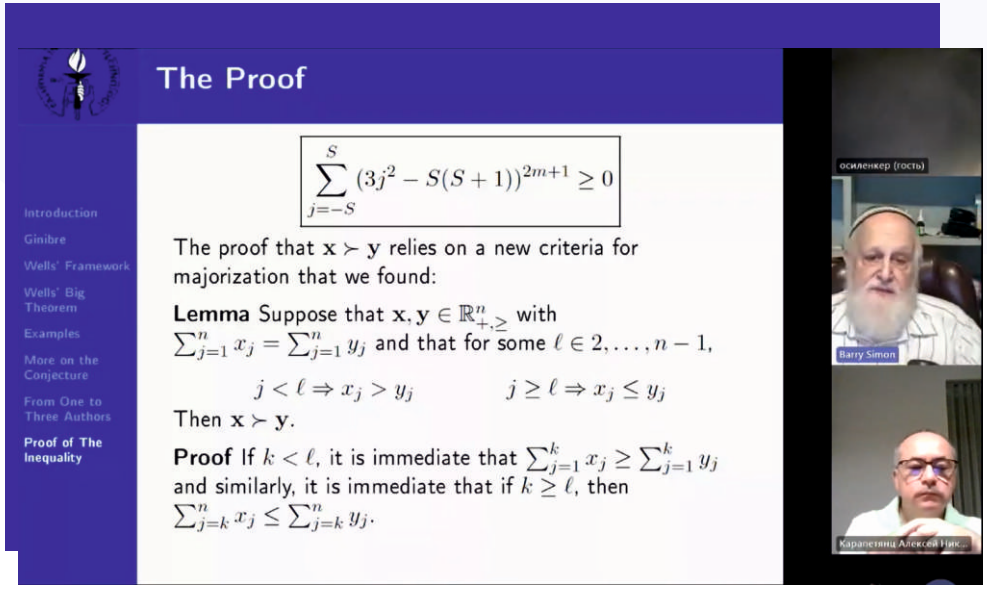
07 January 2021

Alexei Karlovich
NOVA University Lisbon, Lisbon, Portugal
A lower estimate for weak-type Fourier multipliers

Семинар «Seminar on Analysis, Differential Equations and Mathematical Physics»

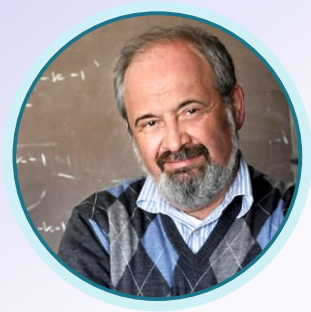
21 сентября 2023 года на семинаре выступил профессор Барри Саймон из Калифорнийского технологического института, США, собрав более 120 слушателей.

Он прочитал лекцию, посвященную модели Изинга - математической модели статистической физики, предназначенной для описания намагничивания материала.



Фрагмент презентации профессора Барри Саймона.

Лекторы семинара, 2020г.



24 December 2020

Peter Kuchment
Texas A&M University, USA
Can one hear the heat of a body? Mathematics of some novel techniques of medical imaging

10 December 2020

Pavel Exner
Doppler Institute for Mathematical Physics and Applied Mathematics, Czech Republic
Spectral properties of Dirichlet Laplacian in spiral-shaped regions

26 November 2020

Ioannis Stratis
National and Kapodistrian University of Athens, Greece
On an interior Calderon operator and a related Steklov eigenproblem for Maxwell's equations

12 November 2020

Mark Agranovsky
Bar-Ilan University, Holon Institute of Technology, Israel
Funk-Radon transforms

29 October 2020

Ricardo Weder
Institute of Research in Applied Mathematics and Systems, National Autonomous University of Mexico, Mexico
Dispersive estimates for Schrödinger equations

15 October 2020

Luca Zampogni
Department of Mathematics and Computer Science, University of Perugia, Italy
Some results on the inverse spectral theory for the Sturm-Liouville operator on the line

01 October 2020

Alexander Nazarov
St. Petersburg State University and St. Petersburg Department of Steklov Mathematical Institute of RAS, Russia
Some inequalities for fractional Laplacians

17 September 2020

Sergei Avdonin
University of Alaska Fairbanks, USA
Control and inverse problems for Krein's string

03 September 2020

Eugene Shargorodsky
King's College London, United Kingdom
Quantitative results on continuity of the spectral factorisation mapping

20 August 2020

Ilya Spitkovsky
New York University Abu Dhabi, United Arab Emirates
Revisiting Stampfli's "The norm of a derivation": Fifty years later

06 August 2020

Natasha Samko
UiT The Arctic University of Norway, Norway
Integrability properties of integral transforms via Morrey spaces

23 July 2020

David Cruz-Uribe
The University of Alabama, USA
Norm inequalities for linear and multilinear singular integrals on weighted and variable exponent Hardy spaces

09 July 2020

Vladimir Rabinovich

Instituto Politecnico Nacional, Mexico

Fredholm property and essential spectrum of 3-D Dirac operators with regular and singular potentials

25 June 2020

Hans Georg Feichtinger

University of Vienna, Austria

The Banach Gelfand Triple and its role in Classical Fourier Analysis and Operator Theory

11 June 2020

Stephen Shipman

Louisiana State University, Baton Rouge, USA

Reducible and irreducible Fermi surfaces for periodic operators

28 May 2020

Uwe Kähler

CIDMA - Department of Mathematics, University of Aveiro, Aveiro, Portugal

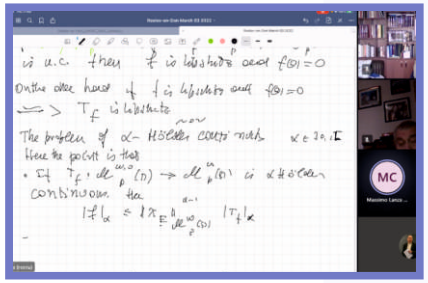
Inversion of the noisy Radon transform and Wavelet and Gabor frames on S^3

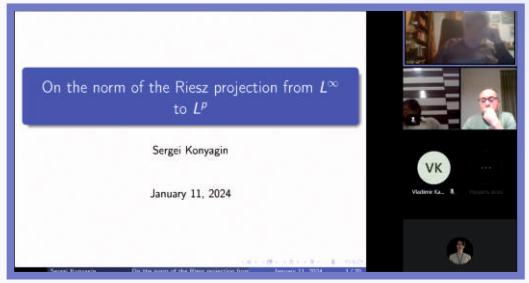
14 May 2020

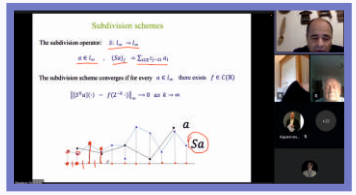
Sergii Torba

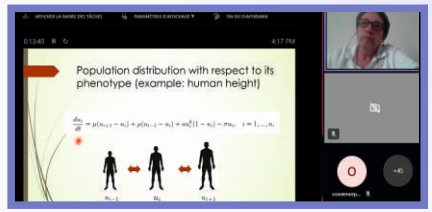
Mathematics department, CINVESTAV del IPN, Mexico

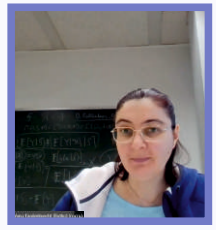
A series representation of integral kernels of the transformation operators and application to numerical solution of spectral problems

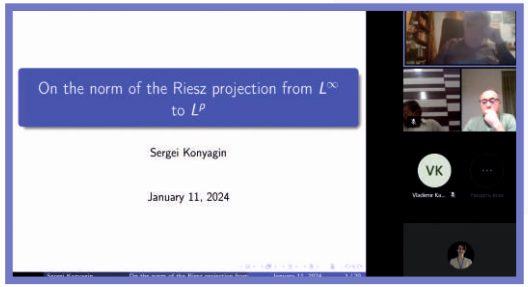



On the norm of the Riesz projection from L^∞ to L^p
Sergei Konyagin
January 11, 2024


Subdivision schemes


Population distribution with respect to its phenotype (example: human height)

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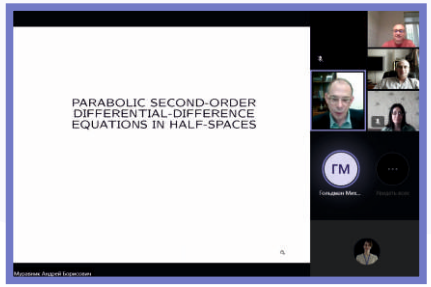
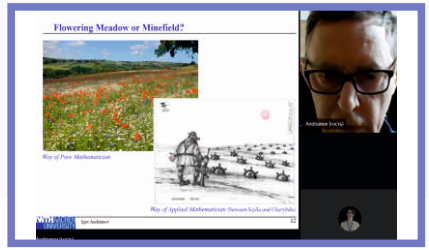
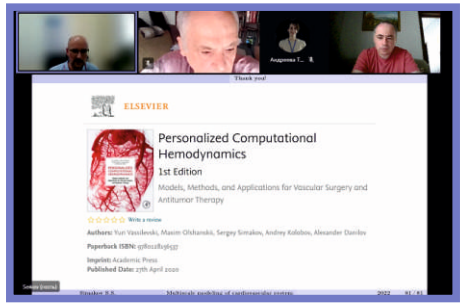

PARABOLIC SECOND-ORDER DIFFERENTIAL-DIFFERENCE EQUATIONS IN HALF-SPACES


Flowering Meadow or Minefield?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