

Program of International Mathematical Conference on Functional Analysis in Interdisciplinary Applications 2023 (FAIA 2023) Antalya, Club Sera Hotel October 02 - October 07, 2023 October 2, Monday, 2023		
14:00 - Arrivals - Hotel Check-in		
October 3, Tuesday Conference Hall (Phaelis Hall), Club Sera Hotel		
Zoom link: https://us02web.zoom.us/j/6678270445?pwd=SFNmQUIvT0tRaHlDaVYrN3l5bzJVQT09 Conference ID: 667 827 0445, Access code: 1		
09:00-10:00	Registration	
10:00-10:10	Opening Ceremony: Tynysbek Kalmenov, Makhmud Sadybekov, Durvudkhan Suragan, Mesut Urun, Nurgissa Yessirkegenov	
Time (Istanbul time: UTC/GMT +3 hours) and Speaker	Moderator	Title of the Talk
10:10-10:40 Mersaid Aripov	Tynysbek Kalmenov	Large time asymptotic of solution of the Cauchy problem to double nonlinear parabolic equation with variable density and absorption
10:40-10:55 Erlan Nursultanov, Askhat Mukanov		On Hardy-Littlewood theorem
10:55-11:25 Angel Zhivkov		Geometry and solutions of the planar problem of two centers of gravitation
11:25-11:45 Coffee break		
11:45-12:00 Dinmukhammed Akpan	Angel Zhivkov	Nijenhuis geometry and geodesically equivalent metrics
12:00-12:15 Bakytbek Sarsenov, Galitdin Bakanov		Investigation of discrete analogs of integral geometry problem with a weight function
12:15-12:30 Lazat Spankulova, Yeldar Nuruly		Methods of Stated and Revealed Preferences: A Case Study in Healthcare Services
12:30-16:00 Lunch		
16:00-16:15 Turdybek Nurlybekuly	Ryskul Oinarov	Weak version of Doob inequalities of noncommutative martingales
16:15-16:30 Myrzagali Ospanov		On logarithmically submajorization for τ -measurable operators.
16:30-16:45 Lyazzat Sarybekova, Nazerke Tleukhanova		On the Fourier multipliers with respect to the general Haar system
16:45-17:00 Kanat Tulenov		On Fourier Multiplier on Non-Commutative Torus and Applications
17:00-17:20 Coffee break		
17:20-17:35 Berikbol Torebek	Muvasharkhan Jenaliyev	Critical Exponents for the Exterior Evolution problems
17:35-17:50 Samat Kassabek, Orazbek Narbek		Heat polynomials method for solving inverse Stefan type problems
17:50-18:05 Targyn Nauryz		Nonlinear Stefan problem with a heat source arising in closed electrical contacts
18:05-18:20 Madi Yergaliyev		Direct and inverse problems for the Burgers equation in degenerating domains
18:20-18:35 Bauyrzhan Derbissaly		Inverse source problem for time-fractional diffusion equation with non-local boundary condition
18:35-18:50 Daurenbek Serikbaev		Inverse problem of determining time-dependent source term in the time-fractional heat equation

October 4, Wednesday

Conference Hall (Phaselis Hall), Club Sera Hotel

Zoom link:

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Time (Istanbul time: UTC/GMT +3 hours) and Speaker	Moderator	Title of the Talk
10:00-10:30 Muvasharkhan Jenaliyev	Arsen Pskhu	On the regularity of the solution of a hyperbolic equation
10:30 - 10:45 Abdizhahan Sarsenbi		Solvability of boundary value problems for a involutory second-order differential equation
10:45-11:00 Batirkhan Turmetov		On Solvability of Some Inverse Problems for a Parabolic Equation with multiple involution
11:00-11:10 Aidos Shakir		Navier-Stokes-Voigt equations governing density-dependent flows with vacuum
11:10-11:25 Marat Tleubergenov		On the basic inverse problem for a first order differential equation with degenerate diffusion
11:25-11:40 Kordan Ospanov		The third-order differential equation with unbounded coefficients
11:40-12:00		Coffee break
12:00-12:15 Umbetkul Koilyshov	Kordan Ospanov	Solution of initial boundary value problems for the heat equation with discontinuous coefficients arising in financial mathematics
12:15-12:30 Nurlan Imanbaev, Makhmud Sadybekov		Construction of an unconditional basis from elements of the system of root functions of a spectral problem with a linear occurrence of the spectral parameter in the boundary condition
12:30-12:45 Altynshash Bekbauova, Yergali Kurmangaliyev, Askarbek Imanchiyev		A periodic on part of variables solution of an infinite system in the broad sense
12:45-13:00 Murat Sultanov		Numerical algorithms for solving the inverse problem of identifying the initial conditions of a subdiffusion equation
13:00-13:15 Bakytbek Koshanov		On some nonlocal boundary value problems for second-order elliptic systems
Lunch		
Afternoon will be free for informal, individual discussions or simply to enjoy the beautiful surroundings of Antalya		

October 5, Thursday		
Conference Hall (Phaselis Hall), Club Sera Hotel		
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Time (Istanbul time: UTC/GMT +3 hours) and Speaker	Moderator	Title of the Talk
09:30-10:00 Ari Laptev	Durvudkhan Suragan	Lieb-Thirring inequalities on manifolds with negative curvature
10:00-10:30 Ryskul Oinarov		Weight estimates for one class of quasilinear integral operators with kernel
10:30-11:00 Arsen Pskhu		Generalized Stankovich transform and distributed order evolutionary equations
11:00-11:20	Coffee break	
11:20-11:35 Alexander Rogovoy	Mersaid Aripov	The criterion of minimality of the mixed type Gellerstedt equation
11:35-11:50 Abdullaaziz Artikbayev		Model of the route of railway tracks.
11:50-12:05 Kholmatvay Shadimetov		Optimal Difference Formulas in the Sobolev Spaces
12:05-12:15 Madina Otkel		Finite-Time/Fixed-Time Synchronization of Memristive Shunting Inhibitory Cellular Neural Networks via Sliding Mode Control
12:15-12:25 Zhangir Nuriyev		Finite-Time Synchronization for Fuzzy Shunting Inhibitory Cellular Neural Networks
Lunch		
Afternoon will be free for informal, individual discussions or simply to enjoy the beautiful surroundings of Antalya		

October 6, Friday		
Conference Hall (Phaselis Hall), Club Sera Hotel		
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Time (Istanbul time: UTC/GMT +3 hours) and Speaker	Moderator	Title of the Talk
10:00-10:30 Tynysbek Kalmenov	Ari Laptev	On a method for constructing the Green's function of the Dirichlet problem and regular boundary value problem for the Laplace equation
10:30-10:45 Nurzhan Bokayev		On the compactness of the commutator of the Riesz potential in global Morrey type spaces
10:45-11:05	Coffee break	
11:05-11:20 Ayagoz Kankenova	Erlan Nursultanov	Boundedness of the Riesz operator in a Morrey-type space
11:20-11:35 Durvudkhan Suragan		Maximizing Schatten p-Norms and Related Isoperimetric Inequalities
11:35-11:50 Sailaubay Zhumatov		Construction of stable control systems for a given program manifold
11:50-12:05 Ainur Temirkhanova		Weighted Hardy-type inequalities for monotone functions
12:05-12:20 Nazerke Zhangabergenova		Iterated discrete Hardy type inequalities: the case $\theta < p$
12:20-16:00		Lunch
16:00-16:15 Ainur Jumabayeva	Turdybek Nurlybekuly	Inequalities between mixed moduli of smoothness
16:15-16:30 Aidyn Kassymov		Stein-Weiss-Adams inequality on Morrey space
16:30-16:45 Mesut Urun		The Absolute Stable Difference Schemes to the Time-Dependent Source Identification Problem for the Schrödinger Equation
16:45-17:00 Ezgi Soykan Urun		Third-order weighted essentially nonoscillatory schemes for advection-diffusion equation
17:00-17:20	Coffee break	
17:20-17:35 Nurgissa Yessirkegenov	Nurzhan Bokayev	Hardy and Rellich identities and inequalities related to Baouendi-Grushin operator
17:35-17:45 Yerkin Shaimerdenov		Critical extended Sobolev type identities and inequalities
17:45-17:55 Almat Orazbayev		Improved Hardy-Sobolev Inequalities
17:55-18:05 Kuralay Apseit		Radial and logarithmic refinements of the weighted Hardy inequality
18:05-18:20 Abdissalam Sarsenbi		Inverse problem for a fourth-order hyperbolic equation with a complex valued coefficient
18:20-18:30 Nursaule Ainakeyeva		Solution of the Cauchy problem of the dynamics of a thermoelastic rod using the Vladimirov method
7 October 2023 (IN PERSON)		
9:30-10:30 Closing		
12:00 - Hotel Check out		

October 9, Monday		
Online talks (Istanbul time: UTC/GMT +3 hours)		
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Time (Istanbul time: UTC/GMT +3 hours) and Speaker	Moderator	Title of the Talk
11:00-11:15 Assia Guezane Lakoud	Makhmud Sadybekov	On Fractional Delay Pantograph Differential Equations
11:15-11:30 Aida Sahmur		The dynamics of nonlocal cancer tumor growth model
11:30-11:45 Muhiddinova Oqila Tulqinqizi		Initial-boundary value and inverse problems for higher order equations
11:45-12:00 Obidjon Abdullaev		Direct and Inverse problems for a nonlinear parabolic-hyperbolic equation
12:00-12:15 Ladjimi Meriem		On the fractional neutral Levin-Nohel integro-differential equations
12:15-12:30 Baltabek Kanguzhin, Karlygash Dosmagulova		Solvable problems for the Laplace-Beltrami operator on a two-dimensional sphere with a cut
12:30-12:45 Talgat Akhazhanov		Approximation of functions of two variables of bounded p-fluctuation by polynomials with respect to Walsh systems
12:45-13:00 Rashid Kerimbayev, Lazat Spankulova		Equilibrium State in Economics and the Jacobian
13:00 - 13:15 Ozgur Yildirim		On the asymptotic solutions of perturbation problems for hyperbolic equations
13:15 - 13:30 Ali Sırma		Time Nonlocal Schrödinger Equation with Spatial Periodic Boundary Condition in Fractional Power Hilbert Spaces
13:30-13:45 Allaberen Ashyralyev, Makhmud Sadybekov		On the Nonlocal Boundary Value Problem with Samarskii–Ionkin Condition I for the Elliptic Differential Equations
13:45-14:00 Veli Shakhmurov		Quality properties of multipoint problem for Schrodinger equations and applications
14:00-14:15 Dauren Matin		Compactness of commutator bilinear Riesz potential in generalized Morrey spaces