

**PROGRAM
OF THE
SECOND USA - UZBEKISTAN CONFERENCE ON
ANALYSIS AND MATHEMATICAL PHYSICS**

**URGENCH STATE UNIVERSITY
AUGUST 08-12, 2017**

PLENARY TALKS.....

PUBLIC TALKS.....

SECTION I - Algebra and Functional Analysis.....

SECTION II - Dynamical Systems.....

SECTION III - Mathematical Physics and PDE.....

SECTION IV -Probability Theory and Mathematical statistics ..

SECTION V – Complex Analysis and Pluripotential Theory

SECTION VI - Analysis on Metric Spaces.....

Maps of Urgench State University and Urgench city

OPENING CEREMONY: AUGUST 08, 2017. Chair: B. Abdullaev

TIME	SPEAKER	TITLE	LOCATION
08:00 – 09:00	REGISTRATION/CHECK - IN		Main Building
09:00 – 09:10	Inomjon Majidov	Minister of Higher and Secondary Special Education of the Republic of Uzbekistan	Arts Hall
09:10 – 09:20	Po‘lat Bobojonov	Governor of Khorezm region	Arts Hall
09:20 – 09:30	Bekhzod Yuldashev	President of the Academy of Sciences of the Republic of Uzbekistan	Arts Hall
09:30 – 09:40	Avazjon Maraximov	Rector of National University of Uzbekistan	Arts Hall
09:40 – 09:50	Abdulla Azamov	President of the Uzbekistan Mathematical Society	Arts Hall

PLENARY TALKS: AUGUST 08, 2017. Chair: A. Azamov

TIME	SPEAKER	TITLE	LOCATION
10:00 – 10:50	August Tsikh	Multiple Roots of Algebraic Equations	Arts Hall
11:00 – 11:30	COFFEE BREAK		Arts Hall
11:30 – 12:20	Azimbay Sadullaev	Survey of recent developments in Pluripotential Theory	Arts Hall
13:00-14:00	LUNCH		Dining Hall
14:00-18:30	PARALLEL SESSIONS		See pages
19:00-21:00	DINNER		Local restaurant

PLENARY TALKS: AUGUST 09, 2017. Chair: A. Sadullaev

TIME	SPEAKER	TITLE	LOCATION
09:00 – 09:50	Efim Zelmanov	Matrix Wreath Products	Arts Hall
10:00 – 10:50	Shavkat Ayupov	Local and 2-local derivations and automorphisms of finite-dimensional Lie algebras	Arts Hall
11:00 – 11:30	COFFEE BREAK		Arts Hall
11:30 – 12:20	Fedor Sukochev	Weak type commutator and Lipschitz estimates: resolution of the Nazarov-Peller conjecture	Arts Hall
13:00-14:00	LUNCH		Dining Hall
14:00-18:30	PARALLEL SESSIONS		See pages
19:00-21:00	BANQUET-PLOV		Restaurant “TURON”
21:00-22:00	Concert: University ensemble		Restaurant “TURON”

PLENARY TALKS: AUGUST 10, 2017. Chair: E. Zelmanov

TIME	SPEAKER	TITLE	LOCATION
09:00 – 09:50	Marco Abate	Carleson measures in strongly pseudoconvex domains	Arts Hall
10:00 – 10:50	Marcelo Disconzi	Viscous Fluids in General Relativity	Arts Hall
11:00 – 11:30	COFFEE BREAK		Arts Hall
11:30 – 12:20	Sabir Umarov	On fractional generalizations of Fokker-Planck equation	Arts Hall
13:00-14:00	LUNCH		Dining Hall
14:30-18:30	PARALLEL SESSIONS		See pages
19:00	DINNER		Local restaurant

PUBLIC TALKS: AUGUST 11, 2017. Chair: Sh. Ayupov

TIME	SPEAKER	TITLE	LOCATION
09:00 – 09:50	Abdulla Azamov	The role and place of Al-Khorezmi in the history of mathematics	Khorezm Mamun Academy (Khiva) Conference Hall
10:00 – 10:50	Leonid Bunimovich	Gross-immunoreactivity generates local immunodeficiency	Khorezm Mamun Academy (Khiva) Conference Hall
11:00 – 11:30	COFFEE BREAK		
11:30 – 12:30	Tour of Khorezm Mamun Academy		
13:00-14:00	LUNCH		Restaurant in Khiva
14:00-19:00	TRIP TO ICHAN KALA		
18:30	DINNER		Local restaurant

AUGUST 12, 2017

TRIP TO ANCIENT FORTRESSES OF KHOREZM

SPECIAL SESSION TALKS

SECTION I: ALGEBRA AND FUNCTIONAL ANALYSIS

AUGUST 08, 2017. Chair: Sh. Ayupov and F. Sukochev

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Isomiddin Rakhimov	On Extensions of some classes of algebras	Hall #1
14:50 – 15:30	Farkhod Eshmatov	Automorphisms and ideals of noncommutative deformations of C^2/Z^2	Hall #1
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Yusuf Eshkabilov	Positive fixed points of Hammersstein's integral operators and Gibbs measures	Hall #1
16:30 – 16:50	Golib Botirov	Non-translation-invariant Gibbs measures for models with uncountable set of spin values on a Cayley tree	Hall #1
17:00 – 17:20	Aleksandr Veksler	Mean ergodic theorem in symmetric spaces	Hall #1

AUGUST 09, 2017. Chair: E. Zelmanov and I. Rakhimov

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Xiaojun Chen	Derived non-commutative Poisson structure on Koszul-Calabi-Yau algebras	Hall #1
14:50 – 15:30	Fedor Sukochev	Mean ergodic theorem in symmetric spaces	Hall #1
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Nadim Kasymov	Effectively separable algebras	Hall #1
16:30 – 16:50	Sijong Kwak	Defining equations and the structure of Betti table of projective varieties	Hall #1
17:00 – 17:20	Young Rock Kim	Phase tropical varieties	Hall #1
17:30 – 17:50	Farkhod Ibragimov	Computably separable models	Hall #1

AUGUST 10, 2017. Chair: S. Kwak and Y. Eshkabilov

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Asuman Aksoy	Deviation of elements of a Frechet space from a system of subspaces	Hall #1
14:50 – 15:30	Bakhrom Omirov	Some conjectures on complex finite-dimensional solvable Leibniz algebras	Hall #1
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:40	Rustambay Abdullayev	An isomorphism criterion of log-integrable algebras	Hall #1
16:50 – 17:30	Karimbergen Kudaybergenov	2-Local derivations and automorphisms on finite-dimensional Leibniz algebras	Hall #1
17:40 – 18:00	Abror Khudoyberdiev	On degenerations of finite-dimensional algebras	Hall #1

SECTION II: DYNAMICAL SYSTEMS

AUGUST 08, 2017. Chair: A. Azamov and H. Zhang

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Gafurjan Ibragimov	A dynamical game described by an infinite system of differential equations	Hall #2
14:50 – 15:30	Rasulhoja Ganihodjaev	Dynamic properties of the maps of type Lodka-Volterra	Hall #2
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:40	Utkir Rozikov	Nonlinear dynamical systems in biology	Hall #2
17:00 – 17:20	Muminjon Tukhtasinov	Epsilon-positional strategy in differential games	Hall #2
17:30 – 17:50	Odiljon Ahmedov	Azamov's DN-tracking method for constructing Poincare mappings	Hall #2

AUGUST 09, 2017. Chair: A. Dzhililov and B. Webb

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Abdulla Azamov	Quadratic Dynamical Systems: The language of Taylor's terms and N. Chomski's grammar and their fractal structure	Hall #2
14:50 – 15:30	Hong-Kun Zhang	Markov partition for hyperbolic	Hall #2

		systems with singularities including billiards	
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:40	Federico Bonetto	Kac's model of gas kinetic and approach to equilibrium	Hall #2
17:00 – 17:20	Marks Ruzibaev	Polynomial decay of correlations for random skew products	Hall #2

AUGUST 10, 2017. Chair: M. Abate and L. Bunimovich

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Leonid Bunimovich	Finite time dynamics	Hall #2
14:50 – 15:30	Ben Webb	Self-Limiting Behavior of Particle(s) Moving Deterministically in Random Mediaen	Hall #2
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:40	Akhtam Dzhaliilov	Circle maps with singularities	Hall #2
17:00 – 17:20	Abdumajid Begmatov	Convergence of renormalizations for circle maps with breaks	Hall #2
17:30 – 17:50	Utkir Safarov	Conjugacies of circle maps with singularities	Hall #2

SECTION III: MATHEMATICAL PHYSICS AND PARTIAL DIFFERENTIAL EQUATIONS

AUGUST 08, 2017. Chair: R. Ashurov and M. Disconzi

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Elton Hsu	Harmonic Oscillator, Ornstein-Uhlenbeck operator and functional inequalities	Hall #3
14:50 – 15:30	Tynysbek Kal'menov	Boundary condition for the Elliptic-parabolic volume potential	Hall #3
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Mirsaid Aripov	The Fujita type and second critical exponents for a double nonlinear parabolic equations and systems	Hall #3
16:30 – 16:50	Olimjon Khalmukhamedov	On the spectrum of the Schrodinger operator for some many-	Hall #3

		particle systems	
17:00 – 17:20	Gayrat Urazboev	Ablowitz-Ladik system with self-consistent source	Hall #3
17:30 – 17:40	Sobir Ulashov	The existence of bound and resonance states of the two-particle Schrodinger operators on lattices	Hall #3
17:40 – 17:50	Shakhlo Sadullaeva	Cauchy problem for degenerate nonlinear cross systems with convective transfer and absorption	Hall #3

AUGUST 09, 2017. Chair: M. Aripov and S. Lakaev

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Makhmud Sadybekov	On a generalized Samarskii–Ionkin type problem for the Poisson equation	Hall #3
14:50 – 15:30	Ravshan Ashurov	On pointwise convergence of continuous wavelet transforms	Hall #3
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Anvar Hasanov	Particular solutions for a class of degenerating partial differential equations of third order	Hall #3
16:30 – 16:50	Aknazar Khasanov	The higher Korteweg-De Vries equation with a free term, which is not depend from spatial variable	Hall #3
17:00 – 17:20	Kudratillo Fayazov	Ill-posed problems for system of Differential-operator equations	Hall #3
17:30 – 17:40	Shakirboy Qosimov	On the convergence of the means spectral expansions, corresponding to the pseudo differential operators of for distributions from the Sobolev-Liouville classes	Hall #3
17:40 – 17:50	Djumaqilich Amanov	Boundary value problems for the higher order equation with fractional derivative	Hall #3

AUGUST 11, 2017. Chair: O. Khalmukhamedov and S. Umarov

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Chiu-Yen Kao	Minimizing Eigenvalues for Inhomogeneous Rods and Plates	Hall #3
14:50 – 15:30	Saidakhmad Lakaev	The existence of bound states in a system of three particles in an optical lattice	Hall #3
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Erkin Karimov	On a boundary problem for mixed type equation with the fractional derivatives	Hall #3
16:30 – 16:50	Alisher Yakhshimurotov	Integration of the nonlinear Schrodinger equation with a loaded term in the class of periodic functions	Hall #3
17:00 – 17:20	Shakhzod Kurbanov	Threshold effects for the generalized Friedrich's model with the perturbation of rank one.	Hall #3
17:30 – 17:40	Bozorboy Bobojanov	On the periodic Toda lattice hierarchy with an integral source	Hall #3
17:40 – 17:50	Artikbaev Abdulaziz	The existence and uniqueness of generalized solutions of equations of Monge-Ampere in an unbound region	Hall #3

SECTION IV: PROBABILITY THEORY AND MATHEMATICAL STATISTICS

AUGUST 08, 2017. Chair: Sh. Mirakhmedov and Sh. Sharakhmetov

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Olimjon Sharipov	Bootstrap for dependent functional data with application to change point analysis	Hall #4
14:50 – 15:30	Nurlan Dushatov	Asymptotic properties of power estimators of survival function by strong mixing and incomplete data	Hall #4
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Matyakub Bakoev	Degenerate parabolic partial differential equations and diffusion processes with applications	Hall #4
16:30 – 16:50	Azam Imomov	On some limit results for critical	Hall #4

		Galton-Watson branching processes with infinite variance	
17:00 – 17:20	Ikrom Sheraliev	Generalization of the Esseen's theorem	Hall #4

AUGUST 09, 2017. Chair: Sh. Mirakhmedov and O. Sharipov

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Abdurakhim Abdushukurov	Cox regression model under random censoring from both sides	Hall #4
14:50 – 15:30	Yakubjon Husonboev	Functional limit theorem for critical branching processes with dependent immigration	Hall #4
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Johongir Azimov	Asymptotical properties of the critical branching process with non-homogeneous immigration	Hall #4
16:30 – 16:50	Nargiza Nurmukhamedova	Asymptotical properties of likelihood ratio statistics under hybrid censored	Hall #4
17:00 – 17:20	Akmal Qushmuratov	Strong law of large numbers for random fields with values in Banach spaces	Hall #4

AUGUST 10, 2017. Chair: A. Abdushukurov and Y. Husonboev

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Sherzod Mirakhmedov	Approximation by the normal distribution and asymptotic efficiencies of tests goodness-of-fit associated with multinomial model	Hall #4
14:50 – 15:30	Shoturgun Sharakhmetov	Moment inequalities for sums of k-wise independent random variables	Hall #4
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Leyla Kakadjanova	On M-estimation of unknown parameter in competing risks model under random censoring	Hall #4
17:30 – 17:50	Farkhad Abdikalikov	Estimation of mean conditional residual life function in fixed design regression model under	Hall #4

		informative random censorship from both sides	
17:00 – 17:20	Sadullo Sharipov	Functional limit theorem for critical branching processes with dependent immigration	Hall #4

SECTION V: COMPLEX ANALYSIS AND PLURIPOTENTIAL THEORY

AUGUST 08, 2017. Chair: A. Sadullaev and D. Papovici

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Mark Lawrence	Polynomial hulls of tori in $S^1 \times \mathbb{C}$.	Hall #5
14:50 – 15:30	Alimardon Atamuratov	On Regular parabolicity of manifolds $\mathbb{C}^n \setminus A$.	Hall #5
15:40 – 16:00	Coffee Break		Lobby
16:10 – 16:50	Dmitriy Pochekutov	Toric cycles in the complement of a complex curve in the 2-dimensional complex torus	Hall #5
17:00 – 17:20	Gulmirza Khudayberganov	Carleman's formula for the Siegel matrix half-plane.	Hall #5
17:30 – 17:40	Takhir Tuychiev	On the extension of functions which allows the holomorphic extension on parallel sections	Hall #5
17:50 – 18:00	Nasiba Turdiyeva	On integral formulas to A-analytic functions	Hall #5
18:10 – 18:20	Bayram Utemuratov	A multidimensional boundary analogue of Hartogs's theorem on n-circular domains	Hall #5

AUGUST 09, 2017. Chair: M. Lawrence and A. Tsikh

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Diganta Borah	Comments on the Capacity Metric	Hall #5
14:50 – 15:30	Slawomir Dinew	Minimum sets of strictly plurisubharmonic functions	Hall #5
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Aleksey Shuplev	Mellin Transform of Rational Functions	Hall #5
16:30 – 16:50	Shirali Kadyrov	On Bernstein-Walsh estimates	Hall #5
17:00 – 17:20	Zafar Ibragimov	Best rational approximation and fine-analytic functions in \mathbb{C}^n	Hall #5
17:20 – 17:30	Davlatbay Jumabaev	Rearrangement formulas for the	Hall #5

		singular Henkin-Ramirez integral in strictly pseudoconvex domains	
17:30 – 17:40	Shomurot Shopulatov	On the Privalov theorem	Hall #5
17:40 – 17:50	Bakhrom Abdullaev	On m-wsh funstions	Hall #5

AUGUST 10, 2017. Chair: S. Dinew and S. Imomkulov

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Dan Popovici	Non-Kahler Mirror Symmetry of the Iwasawa Manifold	Hall #5
14:50 – 15:30	Sevdiyoy Imamkulov	Analogy of Hartog's theorem for the class of fine analytic functions	Hall #5
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:20	Bakhodir Shoimkulov	The Bishop Formula in the Classical Domains	Hall #5
16:30 – 16:50	Karim Rakhimov	Capacity Dimension of the Brjuno Set	Hall #5
17:00 – 17:20	Barlikbay Prenov	About analogue rules of Descartes signs for general functions	Hall #5
17:20 – 17:30	Jurabay Tishabaev	Principle of argument for $A(z)$ -analytic functions	Hall #5
17:30 – 17:40	Shokhrukh Khursanov	Holder regular compacts in C^n	
17:40 – 17:50	Nasridin Jabborov	Morera Theorem for A -analytic functions	

SECTION VI: INTERNATIONAL RESEARCH EXPERIENCE FOR STUDENTS

AUGUST 09, 2017. Chair: Zafar Ibragimov and Asuman Aksoy

TIME	SPEAKER	TITLE	ROOM
14:00 – 14:40	Wesley Whiting	Averaging one-point Cassinian metrics	Hall #6
14:50 – 15:30	Asuman Aksoy	Al-Khwarizmi and the Hermeneutic Circle	Hall #6
15:40 – 16:00	Coffee Break		Lobby
16:00 – 16:15	James Shade	Classification of solvable Leibniz algebras with quasi-filiform Lie nilradical	Hall #6
16:20 – 16:35	Azizbek Azamatov	On the Toda lattice with source	Hall #6

The second USA- Uzbekistan Conference on Analysis and Mathematical Physics

16:40 – 16:55	Terris Becker	Local Automorphisms of sl_n	Hall #6
17:00 – 17:15	James Francese	Classification of Level Two Leibniz Algebras via Annihilating Operators, I	Hall #6
17:20 – 17:35	Bennett Rennie	Classification of Level Two Leibniz Algebras via Annihilating Operators, II	Hall #6
17:40 – 17:55	Sapajan Ibragimov	p-adic numbers	Hall #6

University Campus Map



