SUNDAY 25.08.2019 Location: Hotel Don Quixote. Address: Ulyanovskaya, 58.	
19:00-21:00	Pre-Registration, Lobby of Hotel Don Quixote (early registration)

MONDAY 26.08.2019 Location: Main administrative building, Bolshaya Sadovaya 105/42.			
09:00-10:00	Registration, Lobby of the main administrative building, Bolshaya Sadovaya 105/42		
10:00-13:00	Plenary Session (Ground floor, Scientific Council Room)		
10:00-10:20	Opening ceremony (Ground floor, Scientific Council Room)		
10:20-11:05	Pavel Exner	Leaky quantum structures: spectral properties and asymptotic expansions	Chairman – Armen Sergeev
11:05-11:50	Roland Duduchava	Shell equation derived by a Γ-limit	
11:50-12:15	Coffee break		
12:15-13:00	Sinem Çelik Onaran	Legendrian knots in contact 3-manifolds	Chairman – Roland Duduchava

13:00-13:20	Photo: Please, gather at the Monument Ataman Platov for the conference photo
13:30-14:30	Lunch: Restaurant "Bellucci" in front of the main building (Bolshaya Sadovaya St. 122a)
14:40-18:00	Session talks
18:00-19:00	Meeting of the Steering and Scientific Advisory Committees (Hotel Don Quixote)
18:45-20:45	Welcome furshet, Hotel Don Quixote, 13th floor

14:40-18:00	Session «Differential equations and mathematical physics» (Ground floor, Research Council Room)		
14:40-15:00	Vladislav Kravchenko	A representation of the transmutation kernels for the Schrödinger operator in terms of eigenfunctions and applications	Chairman - Alexander Gaifullin
15:00-15:20	Tigran Harutyunyan	The uniqueness theorems in the inverse problems for Dirac operators	
15:20-15:40	Attila Aşkar	Quantum fluid dynamics representation of the Schrodinger, nonlinear Schrodinger and the Gross-Pitaevskii equations with Navier Stokes dissipation	
15:40-16:00	Suheil Khoury	Biorthogonal series solution for the biharmonic equation and Stokes flow problems	
16:00-16:20	Maxim Shamolin	Integrable dynamical systems with dissipation	
16:20-16:40	Ashot Gevorkyan	Quantum vacuum: The structure of empty space-time and quintessence with gauge symmetry group SU(2) $\otimes$ U(1)	
16:40-17:00	Roman Palvelev	Abelian Higgs models on compact Riemann surfaces	Chairman - Issam Louhichi
17:00-17:20	Ayse Humeyra Bilge	Split metric decomposition of finite metric spaces via Gromov products structures	

17:20-17:40	Alexander Koptev	Superposition of solutions of the Navier-Stokes equations	
17:40-18:00	Razan Alchikh	On the solution of the fractional Bratu's problem: Laplace decomposition approach	

14:40-18:20	**Session «Mathematical analysis, function theory, complex and functional analysis» (Ground floor, Round table room)**		
14:40-15:00	Alexey Karapetyants	On holomorphic Morrey, Orlicz, Grand and Small spaces	Chairman - Tigran Harutyunyan
15:00-15:20	Alexander Goncharov	On stability of bases in Frechet spaces	
15:20-15:40	Issam Louhichi	Toeplitz operators on the Bergman space of the unit disk	
15:40-16:00	Zalina Kusraeva	d-Basis and complex structures in vector Lattices	
16:00-16:20	Joel E. Restrepo	Composition operators on holomorphic spaces of Hölder type functions	
16:20-16:40	Mikail Karapetyants	Dyadic generalized functions and applications	
16:40-17:00	Ivan Kolesnikov	Conformal mapping of the half-plane onto circular polygon	Chairman - Suheil Khoury
17:00-17:20	Giorgi Tutberidze	Modulus of continuity and boundedness of sub-sequences of Vilenkin-Fejér means in the martingale Hardy spaces	
17:20-17:40	Nazli Doğan	Some structural results of certain nuclear Frechet spaces	
17:40-18:00	Mikhael Shubarin	Sum and intersection some ideal Frechet spaces	
18:00-18:20	Alexey Gil	Complex degrees of differential operator associated to the Helmholtz operator	

14:40-15:40	**Session «Round table on Math Education» (Second floor, Round table room)**		
14:40-15:00	Konstantin Nadolin	From undergraduate to postgraduate school: the problem of selection and recruitment of applicants	Chairman - Konstantin Nadolin
15:00-15:20	Iakov Erusalimskiy	About the designation system in the course of linear algebra	
15:20-15:40	Mikail Abramyan	Video-lecture courses: Development experience and ways to improve efficiency	

TUESDAY 27.08.2019 Location: Main Administrative bldg, Bolshaya Sadovaya 105/42. Late registration, 9:00-10:00.			
10:00-12:55	**Plenary Session (Ground floor, Scientific Council Room)**		
10:00-10:45	Ragni Piene	Discriminants and polytopes in toric geometry	Chairman – Betul Tanbay
10:45-11:10	Greetings from the Rector of Southern Federal University		
11:10-11:25	Coffee break		
11:25-12:10	Asaf Hajiyev	Some paradoxical phenomena in theory of probability and their applications	Chairman – Davoud Mirzaei
12:10-12:55	Alexander Komlov	The system of Hermite-Pade polynomials for an algebraic function and (…)	

13:00-14:00	Lunch: Restaurant "Bellucci" in front of the main building (Bolshaya Sadovaya St. 122a)		
14:10	Departure of the buses to the excursion. Please gather at the Monument Ataman Platov and follow instructions		

15:00-20:30		Excursion	

WEDNESDAY 28.08.2019 Location: Main Admin bldg, Bolshaya Sadovaya 105/42. Late registration, 09:30-10:00.

10:00-14:05	**Plenary Session (Ground floor, Scientific Council Room)**		
10:00-10:45	Armen Sergeev	Around harmonic spheres conjecture	Chairman - Pavel Exner
10:45-11:30	Massimo L. de Cristoforis	Multiple Steklov eigenvalues in a domain with a small hole	
11:30-11:50	Coffee break & Poster Session		
11:50-12:35	Alexander Gaifullin	Scissors congruence and flexible polyhedra	Chairman - Volker Mehrmann
12:35-13:20	Lusine Poghosyan	Convergence acceleration of trigonometric expansions: Quasi-periodic interpolations and approximations	
13:20-14:05	Yuri Movsisyan	Boolean and de Morgan structures, their applications	
14:05-15:00	Lunch: Restaurant "Bellucci" in front of the main building (Bolshaya Sadovaya St. 122a)		

15:00-18:00	**Plenary Session (Ground floor, Scientific Council Room)**		
15:00-15:45	Nasser Golestani	Finite group actions on simple C*-algebras	Chairman - Asaf Hajiyev
15:45-16:30	Cem Yalcin Yildirim	The distribution of primes	
16:30-17:15	Ali Hamidoğlu	A strategy for finding integer almost periods in the theory of almost periodic functions	
17:15-18:00	George Tephnadze	Strong convergence and summability of Walsh-Fourier series in Martingale Hardy spaces	
18:30-22:00	Banquet in restaurant "Aztek", Don-Plaza Congress Hotel		

THURSDAY 29.08.2019 Location: Main Admin bldg, Bolshaya Sadovaya 105/42. Late registration, 09:30-10:00.

10:00-13:20	**Plenary Session (Ground floor, Scientific Council Room)**		
10:00-10:45	Samin Malik	Necessary conditions for an extremum in non-convex problems of the calculus of variations	Chairman – Vladislav Kravchenko
10:45-11:30	Davoud Mirzaei	RBF-FD method in a weak formulation	
11:30-11:50	Coffee break		
11:50-12:35	Türker Özsarı	Initial-boundary value problems for the biharmonic nonlinear Schrödinger equation	Chairman - Cem Yalcin Yildirim

12:40-13:40	Lunch: Restaurant "Bellucci" in front of the main building (Bolshaya Sadovaya St. 122a)
13:40-16:20	Session talks
16:20-18:00	Closing furshet

13:40-16:20	Session «Differential equations and mathematical physics» (Ground floor, Scientific Council Room)		
13:40-14:00	Konstantin Nadolin	3D mathematical model of the deep natural stream as a sequence of 2D special BVP for Laplace and Poisson equations	Chairman - Yuri Movsisyan
14:00-14:20	Irina Ostrovskaya	On the stability of Thomson vortex N-gon and vortex tripole/quadrupole in geostrophic models of Bessel vortices and in two-layer rotating fluid	
14:20-14:40	Vadim Kryakvin	Continuity properties for classes of pseudo-differential operators of variable orders acting on Besov spaces	
14:40-15:00	Magomet Shumafov	On the stability of the second order stochastic differential equations	
15:00-15:20	Figen Özpinar	Discrete homotopy analysis method for fractional difference equations	
15:20-15:40	Aydamir Stash	On the coincidence of the spectra of the exponents of oscillations of conjugate differential systems	Chairman - Zalina Kusraeva
15:40-16:00	Natalia Petrovskaya	Asymptotic analysis of the six-dimensional model of free convection in a spheroidal cavity with vanishing dissipation	
16:00-16:20	Irina Morshneva	Codimension-2 bifurcations in the dynamic systems with circular symmetry	

13:40-16:00	Session «Geometry, algebra and probability theory» (Ground floor, Round table room)		
13:40-14:00	Davit Harutyunyan	Properties in weak absolute geometry	Chairman - Lusine Poghosyan
14:00-14:20	Mikail Abramyan	On a semilattice formed by a special binary relation over the set of regular languages	
14:20-14:40	Iakov Erusalimskiy	Graphs with table restrictions on reachability	
14:40-15:00	Vsevolod Voronov	An upper estimate for the chromatic number of the two-dimensional sphere	
15:00-15:20	Daria Roshal	Geometry and topology of the structure and maturation of viral capsids with icosahedral symmetry	
15:20-15:40	Andrey Perevaryukha	Population model of degradation of fish stock with stochastic transition to the collapse state	Chairman - Alexander Komlov
15:40-16:00	Svyatoslav Perelevskiy	Asymptotically efficient estimation in diffusion processes	

Poster session, Wednesday, 28.08.2019, 11:30-11:50, Lobby of the main administrative building of the Southern Federal University, Bolshaya Sadovaya 105/42.

Olga Ivanova - Invariant subspaces of the backward shift operator in spaces of entire functions**.** Olga Paez - Boundedness of the harmonic Bergman projection in various Banach spaces with non-standard function spaces**.** Nisrin Hamadeh Alhalil - Differential properties of generalized Bessel potentials**.** Danaei Reza TBA **.** Alek Aleksanyan - On Homeomorphism Between Euclidean Subspace and Conformally Euclidean Manifold**.** Bertuel Tangue Ndawa - "Geometry" of circle map with a flat piece**.** Eugene Kazakov - Modeling of the minor topology corrections of forward-swept wing