



# THE PROGRAM

of the International Conference  
***Complex Analysis and its Applications***

Gelendzhik – Krasnodar, Russia  
June 2 to 9, 2018



Krasnodar  
2018

2-3 June 2018 Days of arrival

Monday  
4 June 2018

**Greek Cultural Center, 112 Lunacharsky st, Gelendzhik**

<b>9:15 - 10:00</b>	<b>Registration of participants</b>		
<b>10:00 - 10:30</b>	<b>The Opening Ceremony</b>		
<b>10:30 - 13:20</b>	<b>Plenary Lectures</b>		<b>Chairman:</b>
<b>10:30 - 11:15</b>	<b>Solynin Alexander,</b> Texas Technology University, USA	The Art of symmetrization: Ideas of I.P. Mityuk and modern developments	<b>Dubinin Vladimir</b>
<b>11:15 - 11:45</b>	<b>Coffee Break</b>		
<b>11:45 - 12:30</b>	<b>Aptekarev Alexander,</b> Keldysh Institute of Applied Mathematics RAS, Russia	Convergence of rational approximants and extremal problems of geometric theory of functions	
<b>12:35 - 13:20</b>	<b>Babeshko Vladimir,</b> Kuban State University, Russia	The block element method in applications	

**13:15 - 15:00** Lunch

## Schedule for Parallel Sessions

The Branch of the Kuban State University in Gelendzhik, 126 Lunacharsky st.

<b>15:00 - 18:15</b>	<b>Section A, Assembly Hall</b>	<b>Chairman: Goryainov Victor</b>	<b>Section B, Reading room</b>	<b>Chairman: Aptekarev Alexander</b>
<b>15:00 - 15:20</b>	<b>Graf Sergey,</b> Tver State University, Petrozavodsk State University, Russia	The analogues of Nehari theorem for harmonic functions	<b>Buslaev Viktor,</b> Steklov Mathematical Institute of RAS, Russia	Shur's algorithm for formal power series
<b>15:25 - 15:45</b>	<b>Kalmykov Sergey,</b> Far Eastern Federal University; Institute of Applied Mathematics of FEB RAS, Russia	On Bernstein- and Markov-type inequalities for rational functions (with Bela Nagy and Vilmos Totik)	<b>Shchepin Evgeny,</b> Steklov Mathematical Institute of RAS, Russia	On doubling formula for Gamma function
<b>15:50 - 16:10</b>	<b>Shlyk Vladimir,</b> Vladivostok Branch of Russian Customs Academy, Russia	BV-Functions and the weighted modules and capacities on a Riemann surface	<b>Borodin Petr,</b> Moscow State University, Russia	Density of simple partial fractions and their generalizations in function spaces

<b>16:15 - 16:35</b>	<b>Golberg Anatoly,</b> Holon Institute of Technology, Israel	Extremal bounds in module estimates	<b>Komlov Aleksandr,</b> Steklov Mathematical Institute of RAS, Russia	Hermite-Padé approximants for meromorphic functions on a compact Riemann surface
<b>16:40 - 17:00</b>	<b>Bakhtin Alexandr,</b> Institute of mathematics of NAS, Ukraine	Three problems on extremal decomposition of the complex plane with free poles	<b>Lysov Vladimir,</b> Keldysh Institute of Applied Mathematics RAS, Russia	Asymptotics of Hermite- Padé approximations for functions with three branch points
<b>17:05 - 17:25</b>	<b>Levitskii Boris,</b> Kuban State University, Russia	P-harmonic radius and p-harmonic Green's mappings	<b>Bogolyubskii Alexey,</b> LLC "Atol", Russia	On the Frobenius–Padé approximants, domains of their convergence and the supports of the equilibrium measures
<b>17:30 - 17:50</b>	<b>Prilepkina Elena,</b> Far Eastern Federal University; Institute of Applied Mathematics of FEB RAS, Russia	The method of curves families modules in extremal decomposition problems.	<b>Krivosheeva Olesya,</b> Bashkire State University, Russia	Singular points of sum of exponential monomials series

Tuesday  
5 June 2018

9:15 - 13:30	Plenary Lectures		Chairman:
9:15 - 10:00	<p><b>Ponnusamy Saminathan,</b> Indian Institute of Technology Madras, India</p>	<p>On Logarithmic Coefficients and some related Conjecture for certain class of Univalent Functions</p>	<b>Starkov Viktor</b>
10:05 - 10:50	<p><b>Sugawa Toshiyuki,</b> Tohoku University, Japan</p>	<p>Refinements of Schwarz Lemma and their applications to concave functions</p>	
10:50 - 11:20	<b>Coffee Break</b>		
11:20 - 12:05	<p><b>Prokhorov Dmitri,</b> Saratov State University, Russia</p>	<p>Value regions of univalent functions within different classes</p>	
12:10 - 12:55	<p><b>Goryainov Victor,</b> Moscow Institute of Physics and Technology (State University), Russia</p>	<p>Semigroups of holomorphic mappings of a half-plane and Loewner equation</p>	
13:00 - 13:30	<p><b>Nasyrov Semen,</b> Kazan Federal University, Russia</p>	<p>Structure of trajectories for a quadratic differential on a three-sheeted Riemann surface of genus 1</p>	

13:30 - 15:00 Lunch

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<b>15:00 - 18:15</b>	<b>Section A, Assembly Hall</b>	<b>Chairman: Buslaev Viktor</b>	<b>Section C, Reading room</b>	<b>Chairman: Sergeev Armen</b>
<b>15:00 - 15:20</b>	<b>Dubin Vladimir,</b> Far Eastern Federal University, Institute of Applied Mathematics of FEB RAS, Russia	Connected lemniscates and distortion theorems for polynomials and rational functions	<b>Mkrtchan Alexander,</b> Siberian Federal University, Russia	Density of simple partial fractions and their generalizations in function spaces
<b>15:25 - 15:45</b>	<b>Riihenta Juhani,</b> University of Eastern Finland, Finland	Removability results for subharmonic functions, for harmonic functions and for holomorphic functions	<b>Khudayberganov Gulmirza,</b> National University of Uzbekistan	Laurent series in the classical Cartan's domains
<b>15:50 - 16:10</b>	<b>Maergoiz Lev,</b> Siberian Federal University, Russia	Ways of Analytic Continuation of Many-Sheeted Functions of One Variable. Applications	<b>Kurbanov Bukharbay,</b> Karakalpak State University, Uzbekistan	The Morera boundary theorem in the space of rectangular matrices

<b>16:15 - 16:35</b>	<b>Pchelintsev Valerii,</b> Tomsk Polytechnic University, Russia; Ben-Gurion University of the Negev, Israel	On the quasiconformal geometry of the Neumann eigenvalue problem	<b>Rakhmonov Uktam,</b> Tashkent State Technical University, Uzbekistan	On the Carleman formula for a matrix ball of the third type (with Kh.Kurambayev)
<b>16:40 - 17:00</b>	<b>Shabalin Pavel,</b> Kazan State University of Architecture and Engineering	Riemann - Hilbert boundary value problem with several points of turbulence (with A.Kh. Fatykhov)	<b>Prenov Barlykbay,</b> Nukus State Pedagogical Institute named after Ajinyaz, Uzbekistan	On an analog of the Laurent series for harmonic functions
<b>17:05 - 17:25</b>	<b>Yaremenko Ludmila,</b> Kuban State University, Russia	On the curvature of level-lines in the class of regular functions	<b>Otemuratov Bayrambay,</b> Karakalpak State University named after Berdakh, Uzbekistan	On condition of holomorphic continuations of functions from a boundary of a domain
<b>17:30 - 17:50</b>	<b>Gavrilyuk Mikhail,</b> Kuban State University, Russia	Maximum of the diameter of level lines in Jenkins class	<b>Malyutin Konstantin,</b> Kursk State University, Russia	Free interpolation in the class of functions of finite order in the half-plane (with A. Gusev)
<b>17:55 - 18:15</b>	<b>Parmar Rakesh,</b> Govt. College of Engineering and Technology, India	Extended Exton's Triple Hypergeometric Functions $X_{8,p}$ and Associated Bounding Inequalities		

Wednesday  
6 June 2018

<b>9:15 - 13:30</b>	<b>Plenary Lectures</b>		<b>Chairman:</b>
<b>9:15 - 10:00</b>	<b>Sergeev Armen,</b> Steklov Mathematical Institute of RAS, Russia	Universal Teichmueller space as a non-trivial example of infinite-dimensional complex manifolds	<b>Solynin Alexander</b>
<b>10:05 - 10:50</b>	<b>Vuorinen Matti,</b> University of Turku, Finland	Metric properties of quasiconformal mappings	
<b>10:50 - 11:20</b>	<b>Coffee Break</b>		
<b>11:20 - 12:05</b>	<b>Vodop'yanov Sergey,</b> Sobolev Institute of Mathematics, Russia	Quasiconformal analysis of two-indexed scale of spatial mappings and its applications	
<b>12:10 - 12:55</b>	<b>Avkhadiev Farit,</b> Kazan Federal University, Russia	Integral conformally invariant inequalities and their applications	
<b>13:00 - 13:30</b>	<b>Starkov Viktor,</b> Petrozavodsk State University, Russia	Keller mappings and Jacobian conjecture	

**13:30 - 15:00** Lunch



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**The Branch of the Kuban State University in Gelendzhik, 126 Lunacharsky st.**

<b>15:00 - 17:50</b>	<b>Section A, Assembly Hall</b>	<b>Chairman: Vodop'yanov Sergey</b>	<b>Section D, Reading room</b>	<b>Chairman: Avkhadiev Farit</b>
<b>15:00 - 15:20</b>	<b>Fernández Arturo,</b> National Distance Education University, Spain	Classification Theory for Klein Surfaces	<b>Losev Alexander,</b> Volgograd State University, Russia	On the asymptotic behavior of solutions of elliptic-type equations on noncompact Riemannian manifolds
<b>15:25 - 15:45</b>	<b>Bhowmik Bappaditya,</b> Indian Institute of Technology Kharagpur, India	Quasiconformal extension of meromorphic univalent functions with nonzero pole	<b>Tyurikov Evgenij,</b> Don State Technical University, Russia	The Main Boundary Value Problem of the Membrane Theory of Convex Shells for One Class of Symmetric Domes
<b>15:50 - 16:10</b>	<b>Malyutina Aleksandra,</b> Tomsk State University, Russia	On differential properties of mappings with s- averaged characteristic (with K.A. Alipova)	<b>Klimentov Sergey,</b> Southern Federal University, Southern Mathematical Institute of VSC RAS, Russia	Representations of the second kind of the solutions to the first order general elliptic systems in the complex form

<b>16:15 - 16:35</b>	<b>Karmanova Maria,</b> Sobolev Institute of Mathematics, Russia	On Metric Properties of Mappings of Sub- Lorentzian Structures	<b>Mazepa Elena,</b> Volgograd State University, Russia	On solvability of a boundary value problem for the Poisson equation on unbounded open sets of Riemannian manifolds
<b>16:40 - 17:00</b>	<b>Isangulova Daria,</b> Novosibirsk State University, Russia	Analogs of Korn's inequality on Heisenberg groups	<b>Biryuk Andrei,</b> Kuban State University, Russia	Remarks on KO41 Theory of Turbulence (with A.Svidlov and E. Silchenko)
<b>17:05 - 17:25</b>	<b>Molchanova Anastasia,</b> Sobolev Institute of Mathematics, Russia	On a boundary correspondence for homeomorphisms with weighted bounded $(p, q)$ - distortion (with S.K. Vodopyanov)	<b>Svidlov Alexander,</b> Kuban State University, Russia	Uniqueness sets of the simple-layer potential for the Helmholtz equation (with A. Biryuk)
<b>17:30 - 17:50</b>	<b>Malkovich Evgeny,</b> Novosibirsk State University, Russia	On connections on 3-dimensional subRiemannian Lie groups.	<b>Bunyakin Alexei,</b> Kuban State University, Russia	Approximation of stationary solutions of the Navier-Stokes equations system with the potential of velocity and specific state equation for compressible continuum (with V.G. Zolotukhina)

**19:00**

Conference Dinner in "SantaFe"

Thursday  
7 June 2018

## Excursions on choice

1. Excursion to Abrau Durso (15:00 - 20:00)

2. Sea excursion to the rock "Parus" (10:30 – 14:30 or 15:00 - 19:00)

Friday  
8 June 2018

### Schedule for Parallel Sessions

The Branch of the Kuban State University in Gelendzhik, 126 Lunacharsky st.

9:15 - 12:55	Section A, Assembly Hall	Chairman: Prokhorov Dmitri	Section E, Reading room	Chairman: Starkov Viktor
9:15 - 9:35	Kuznetsov Mikhail, Novosibirsk State University, Russia	On a certain characteristic of closed nondegenerate curves	Ganenkova Ekaterina, Petrozavodsk State University, Russia	Differential inequalities for polynomials (with V.V. Starkov)
9:40 - 10:00	Menovschikov Alexander, Sobolev Institute of Mathematics, Russia	Decomposable operators on L <sub>p</sub> -direct integrals	Amozova Kira, Petrozavodsk State University, Russia	$\alpha$ –accessible domains
10:05 - 10:25	Levashova Maria, Kuban State University, Russia	Variational principle in the theory of quasiconformal mappings	Vikharev Sergey, Volgograd State University, Russia	The Liouville-type theorems for stationary Ginzburg-Landau equation on Lipschitz manifolds of a special type

<b>10:30 - 10:50</b>	<b>Ignatenko Alexander,</b> Kuban State University, Russia	On a variational problem for spatial modules (with B.E. Levitskii)	<b>Filatov Vladimir,</b> Volgograd State University, Russia	Massive sets and Liouville type theorems
<b>10:55 -11:15</b>	<b>Borisova Yana,</b> Tomsk State University, Russia	On Problem Fekete and Szegő (with I.A. Kolesnikov)	<b>Shishkin Andrey,</b> Branch of the Kuban State University in Slavyansk-on-Kuban, Russia	The homogeneous convolution equation in space of holomorphic functions
<b>11:20 - 11:40</b>	<b>Kolesnikov Ivan,</b> Tomsk State University, Russia	The accessory parameters in the Schwartz equation	<b>Tatarkin Aleksandr,</b> Branch of the Kuban State University in Slavyansk-on-Kuban, Russia	Elementary solutions of homogeneous q-sided convolution equation (with U. Saranchuk)
<b>11:45 -12:05</b>	<b>Mavrodi Nikolay,</b> Kuban State University, Russia	Singular points of the Hurwitz composition	<b>Silchenko Eugeny,</b> Kuban State University, Russia	On integral representation formula via the heat kernel

**12:15 -12:45** Closing Ceremony (Assembly Hall)

**Saturday**  
**9 June 2018**

The day of departure



If you have any questions, please don't hesitate to contact the Organizing Committee by **contact telephone number** +7(918) 484-60-87