

Georgian Mathematical Union
Batumi Shota Rustaveli State University
Ministry of Education, Culture and Sport of Adjara Autonomous
Republic

XII INTERNATIONAL CONFERENCE
OF THE GEORGIAN MATHEMATICAL UNION

PROGRAM

Batumi, August 29 - September 3

2022

Organizing Committee

Chair – Meskhi Alexander, Deputy Chairs - Baladze Vladimer and Jangveladze Temur, Scientific Secretary - Davitashvili Tinatin. Members - Beriashvili Mariam, Beridze Anzor, Gagoshidze Mikheil, Gogishvili Guram, Imerlishvili Giorgi, Kereselidze Nugzar, Makharadze Dali, Mrevlishvili Maia, Rukhaia Mikheil, Turmanidze Lela, Vashakidze Zurab, Zazashvili Shota.

Scientific Committee

Chair - Natroshvili David, Members - Amaglobeli Mikheil, Bakuradze Malkhaz, Baladze Vladimer, Chilachava Temur, Chkadua Otar, Davitashvili Teimuraz, Duduchava Roland, Dundua Besik, Gogishvili Guram, Jaiani George, Jangveladze Temur, Khachidze Manana, Kharazishvili Alexander, Khimshiashvili Giorgi, Kirtadze Aleks, †Kokilashvili Vakhtang, Kvaratskhelia Vakhtang, Kvatadze Ramaz, Kvinikhidze Alexander, Malidze Shalva, Meladze Hamlet, Mikhailov Sergey, Nadaraya Elizbar, Omanadze Roland, Oniani Giorgi, Pkhakadze Konstantine, Purtukhia Omar, Rukhaia Mikheil, Shargorodsky Eugene, Shavlakadze Nugzar, Tarieladze Vaja, Tetunashvili Shakro, Tephnadze George, Vepkhvadze Teimuraz.

Conference Thematic Sessions and Organizers

- **Algebra, Topology, Geometry and Number Theory** (Amaglobeli Mikheil, Bakuradze Malkhaz, Baladze Vladimer, Khimshiasvili Giorgi)
- **Applied Mathematics, Informatics and Computing in Environmental Sciences** (Davitashvili Teimuraz, Khachidze Manana, Kvatadze Ramaz)
- **Differential Equations and Applications** (Chkadua Otar, Duduchava Roland, Shavlakadze Nugzar)
- **Logic, Language, Artificial Intelligence** (Dundua Besik, Malidze Shalva, Pkhakadze Konstantine, Rukhaia Mikheil)
- **Mathematical Education and History** (Gogishvili Guram, Vepkhvadze Teimuraz)
- **Mathematical Logic and Discrete Mathematics** (Kharazishvili Alexander, Kirtadze Aleks, Omanadze Roland)
- **Mathematical Modeling and Numerical Analysis** (Chilachava Temur, Jangveladze Temur, Meladze Hamlet)
- **Mathematical Physics** (Kvinikhidze Alexander)
- **Probability Theory and Statistics, Financial Mathematics** (Kvaratskhelia Vakhtang, Purtukhia Omar, Tarieladze Vaja)
- **Real and Complex Analysis** (†Kokilashvili Vakhtang, Oniani Giorgi, Tephnadze George, Tetunashvili Shakro).

- **Mini-Symposium: Algebraic Geometry, Geometric and Homological Algebra of Groups**
Organizer: Amaglobeli Mikheil, Co-organizer: Bokelavadze Tengiz
- **Mini-Symposium: Topology in Georgia**
Organizing Committee: Turmanidze Lela, Tarieladze Vaja, Beridze Anzor
Scientific Committee: Baladze Vladimer, Bakuradze Malkhaz, Pirashvili Teimuraz

Editors: Gogishvili Guram, Davitashvili Tinatin

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11	Mini-Symposium: Algebraic Geometry, Geometric and Homological Algebra of Groups	Plenary Room			55		
12	Mini-Symposium: Topology in Georgia	Plenary Room				55	55

Schedule of the Conference

August 28, Sunday (Arrival Day to Batumi)

August 29, Monday

9 ⁰⁰ : 9 ³⁰	Registration
9 ³⁰ : 10 ⁰⁰	Opening of the Conference
Room 1	Chairman: Beridze Anzor
10 ⁰⁰ : 10 ⁵⁰	Amaglobeli Mikheil, <u>Miasnikov Alexei</u> , Tensor Completions of CSA-groups and Fraisse Limits of Extensions of Centralizers
10 ⁵⁰ : 11 ⁴⁰	Kharlampovich Olga , Equations and First-order Sentences in Random Groups
11 ⁴⁰ : 12 ²⁰	Coffee break
Room 1	Chairman: Natroshvili David
12 ²⁰ : 13 ¹⁰	Khmaladze Estate , Theory of Distribution-free Testing in Statistics
13 ¹⁰ : 14 ⁰⁰	Gol'dshtein Vladimir , Composition Operators on Sobolev Spaces and Ball's Classes
14 ⁰⁰ : 16 ⁰⁰	Lunch
16 ⁰⁰ : 17 ¹⁵	Parallel Sessions
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 19 ⁰⁰	Parallel Sessions

August 30, Tuesday

Online	Chairman: Meskhi Alexander
10 ⁰⁰ : 10 ⁵⁰	Sawano Yoshihiro , Locally Regular Weighted Lebesgue Spaces

10 ⁵⁰ : 11 ⁴⁰	Yang Dachun , Real-Variable Theory of Function Spaces Associated with Ball Quasi-Banach Function Spaces
11 ⁴⁰ : 12 ²⁰	Coffee break
12 ²⁰ : 13 ¹⁰	Castro Luis , New Convolutions and Some of Their Applications
13 ¹⁰ : 14 ⁰⁰	Almeida Alexandre , The Maximal Operator in Variable Exponent Stummel Spaces
14 ⁰⁰ : 16 ⁰⁰	Lunch
16 ⁰⁰ : 17 ¹⁵	Parallel Sessions
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 19 ⁰⁰	Parallel Sessions

August 31, Wednesday

10 ⁰⁰ : 11 ¹⁵	Parallel Sessions
11 ¹⁵ : 11 ⁴⁵	Coffee break
11 ⁴⁵ : 13 ⁰⁰	Parallel Sessions
13 ⁰⁰ : 19 ²⁰	Break
Online	Chairman: Oniani Giorgi
19 ²⁰ : 20 ¹⁰	Cruz-Uribe David , Jones Factorization and Rubio de Francia Extrapolation for Matrix Weights
20 ¹⁰ : 21 ⁰⁰	Hagelstein Paul , Differentiation of Integrals: Frontiers and Perspectives

September 1, Thursday

10 ⁰⁰ : 11 ¹⁵	Parallel Sessions
11 ¹⁵ : 11 ⁴⁵	Coffee break

11 ⁴⁵ : 13 ⁰⁰	Parallel Sessions
13 ⁰⁰ : 17 ⁰⁰	Break
Online	Chairman: Duduchava Roland
17 ⁰⁰ : 17 ⁵⁰	Ruzhansky Michael , Log-Sobolev Inequalities on Lie Groups
17 ⁵⁰ : 18 ⁴⁰	Gamarnik David , Overlap Gap Property: A Topological Barrier to Optimizing over Random Structures
18 ⁴⁰ : 19 ²⁰	Coffee break
Online	Chairman: Khmaladze Estate
19 ²⁰ : 20 ¹⁰	Algeri Sara , On Computationally Efficient Methods for Testing Multivariate Distributions with Unknown Parameters
20 ¹⁰ : 21 ⁰⁰	Mnatsakanov Robert , Estimating the Density Function of Relative Distribution via Frequency Moments

September 2, Friday

Room 1	Chairman: Beridze Anzor
10 ⁰⁰ : 10 ⁵⁰	Antonyan Sergey , Gromov-Hausdorff Hyperspaces of a Euclidean Space
10 ⁵⁰ : 11 ⁰⁰	Closing Ceremony of the Conference
11 ⁰⁰ : 11 ³⁰	Coffee break
11 ³⁰ : 14 ⁰⁰	VIII Congress of the Georgian Mathematical Union
14 ⁰⁰ : 16 ⁰⁰	Lunch
16 ⁰⁰ : 17 ¹⁵	Parallel Sessions
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 19 ⁰⁰	Parallel Sessions

Thematic Sessions

Algebra, Topology, Geometry and Number Theory

August 29, Monday

Room 1	Chairman: Bakuradze Malkhaz
16 ⁰⁰ : 16 ²⁵	Kemoklidze Taniel, Finite topology and the full transitivity of a cotorsion hull
16 ²⁵ : 16 ⁵⁰	Khmaladze Emzar, The non-abelian exterior product and low-dimensional homology of Leibniz algebras
16 ⁵⁰ : 17 ¹⁵	<u>Ören İdris</u> , Pekşen Ömer, Khadjiev Djavvat, Beshimov Gayrat, Complete systems of invariants of a parametric figure in the three dimensional Minkowski space
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	Megrelishvili Michael, Orderable groups and semigroup compactifications
18 ¹⁰ : 18 ³⁵	Tkachenko Mikhail, D-independent topological groups
18 ³⁵ : 19 ⁰⁰	Rakviashvili Giorgi, On low dimensional regular cohomologies of biparabolic subalgebras

August 30, Tuesday

Room 1	Chairman: Khmaladze Emzar
16 ⁰⁰ : 16 ²⁵	Bakuradze Malkhaz, On cohomological realization of the Buchstaber formal group law
16 ²⁵ : 16 ⁵⁰	Cojuhari Elena, <u>Gardner Barry</u> , Idempotents and Radical Classes of Rings

$16^{50} : 17^{15}$	Aliashvili Teimuraz, <u>Kapanadze Gvantsa</u> , On a Method for Counting Point in Semi-Algebraic Subsets
$17^{15} : 17^{45}$	Coffee break
$17^{45} : 18^{10}$	Bokelavadze Tengiz , Subgroup Lattices of Hall's W-Power Groups
$18^{10} : 18^{35}$	Mamoon Ahmed , Amenable quasi-lattice ordered groups

August 31, Wednesday

Online	Chairman: Khimshiashvili Giorgi
$16^{00} : 16^{25}$	Drozd Yuriy , Grothendieck group of a locally finite category
$16^{25} : 16^{50}$	Infusino Federico Giovanni , Set Relations and Set Systems Induced by Some Families of Integral Domains
$16^{50} : 17^{15}$	Jafari Farhad, Mnatsakanov Robert, Ngoneh Jallow , Sums of squares, positive definiteness and moment problems in several variables: a case for algebra extensions
$17^{15} : 17^{45}$	Coffee break
$17^{45} : 18^{10}$	Mokhtari Amir Hossein , Characterizing linear maps on standard operator algebras
$18^{10} : 18^{35}$	Shlossberg Menachem , Minimality conditions equivalent to the finitude of Fermat and Mersenne primes
$18^{35} : 19^{00}$	Yildirim Mahmutcepoglu Tugba , Some applications of D-modules to local Cohomology.

19 ⁰⁰ : 19 ²⁵	<u>Akar Uysal Gamze</u>, <u>Temha Erkoç</u> , Character Degree Graphs of Rational Groups
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September 1, Thursday

Online	Chairman: Kemoklidze Tariel
10 ⁰⁰ : 10 ²⁵	Jabel Atteya Mehsin , Characterized of σ -Derivations on Some Elementary Operators Algebras
10 ²⁵ : 10 ⁵⁰	<u>Mahjoub Amal</u>, <u>Najmeddine Attia</u> , A relative vectorial multifractal formalism
10 ⁵⁰ : 11 ¹⁵	Tophuridze Nino , On hyperdeterminants and equations over noncommutative rings
11 ¹⁵ : 11 ⁴⁵	Coffee break
11 ⁴⁵ : 12 ¹⁰	Samsonadze Eteri , On the Sum of Powers of Integer Numbers
12 ¹⁰ : 12 ³⁵	Zangurashvili Dali , On Left Hereditary Left Perfect Right Coherent Rings

Applied Mathematics, Informatics and Computing in Environmental Sciences

August 29, Monday

Room 2	Chairman: Khachidze Manana
16 ⁰⁰ : 16 ²⁵	Kvatadze Ramaz , European e-Infrastructure Initiatives (GEANT, EOSC) for Research and Education in Georgia
16 ²⁵ : 16 ⁵⁰	Nakaidze Roin , Using Geogebra as an interactive methodology in the educational process
16 ⁵⁰ : 17 ¹⁵	Khachidze Manana, Tsintsadze Magda, Archuadze Maia , The Fractal Model of Data Warehouses
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	Tsintsadze Magda, Khachidze Manana, Elizbarashvili Archil, Archuadze Maia , On Selection of "Correct" Machine Learning Algorithm
18 ¹⁰ : 18 ³⁵	Besiashvili Gela, Qarchava Papuna , On the classification of Georgian text
18 ³⁵ : 19 ⁰⁰	Archuadze Maia, Khachidze Manana, Tsintsadze Magda , On Identification of Different Parts of Speech for Georgian Text Processing

August 30, Tuesday

Room 2	Chairman: Kvatadze Ramaz
16 ⁰⁰ : 16 ²⁵	Alexandrov Dmitri, Nikishina Margarita, Makoveeva Eugenia, Alexandrova Irina, Titova Ekaterina , A Complete Analytical Solution to an Integro-Differential Model Describing the Evolution of Ellipsoidal Crystals in a Supercooled Binary Liquid

16 ²⁵ : 16 ⁵⁰	Odishelidze Nana , The problem of constuction of equi–strong holes
16 ⁵⁰ : 17 ¹⁵	<u>Archvadze Natela</u>, Pkhovelishvili Merab, Shetsiruli Lia , Comparison of prediction models: Bayesian method and parallel data
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Elbakidze Khatuna</u>, Kharshiladze Oleg , Theoretical modeling, numerical simulation and experimental investigation of the nonlinear processes in the Near Earth Space Plasma
18 ¹⁰ : 18 ³⁵	<u>Gelashvili Koba</u>, Gogishvili Paata , Oscillation-free Momentum Optimization Algorithms (Online)
18 ³⁵ : 19 ⁰⁰	Abashidze Marina, <u>Jintcharadze Elza</u> , Comparative analysis of RSA cryptosystem and elliptic curve cryptography

August 31, Wednesday

Online	Chairman: Davitashvili Teimuraz
10 ⁰⁰ : 10 ²⁵	<u>Iashvili Nugzar</u>, Imnaishvili Levan, Bedineishvili Maguli , Giorgi Nikoladze – Georgian mathematician and metallurgist, inventor of original calculating tool
10 ²⁵ : 10 ⁵⁰	<u>Imnaishvili Levan</u>, Bedineishvili Maguli, Iashvili Nugzar , Basic principles of functioning and structure of the adding machine Giorgi Nikoladze
10 ⁵⁰ : 11 ¹⁵	<u>Khutashvili Iuri</u>, Prangishvili Archil, Iashvili Nugzar , Intelligent System For The Safe Consumption of Domestic Gas
11 ¹⁵ : 11 ⁴⁵	Coffee break

11 ⁴⁵ : 12 ¹⁰	<u>Iashvili Nugzar, Khutashvili Iuri</u> , New Algorithm of working air pollution controlling device
12 ¹⁰ : 12 ³⁵	<u>Samkharadze Inga, Davitashvili Teimuraz, Zotikishvili Nanuli, Khvedelidze Zurab</u> , Study of some energy characteristics of air flow in the Rioni River valley
12 ³⁵ : 13 ⁰⁰	<u>Davitashvili Teimuraz, Samkharadze Inga, Sharikadze Meri</u> , Modeling sensitivity of the Caucasus glaciers to regional warming

September 2, Friday

Online	Chairman: Davitashvili Teimuraz
16 ⁰⁰ : 16 ²⁵	<u>Ben Hadj Khelifa Meriem, Attia Najmeddine, Jbeli Hajer</u> , A Note on Fractal Measures and Cartesian Product Sets
16 ²⁵ : 16 ⁵⁰	<u>Elizbarashvili Mariam</u> , Regional Climate Modeling: Challenges, and Prospects in Georgia
16 ⁵⁰ : 17 ¹⁵	<u>Lemonjava Givi, Jghamadze Nino</u> , Company financial information flowsIntegrated model
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Janjgava Roman, Aplakovi Aleksandre</u> , Approximate solution of some boundary value problems for elastic plates with voids

Differential Equations and Applications

August 29, Monday

Room 3	Chairman: Prikazchikov Danila
16 ⁰⁰ : 16 ²⁵	Cardona Duvan, <u>Duduchava Roland</u>, Hendrickx Arne, Ruzhansky Michael , Global pseudo-differential operators on the Lie group $G = (-1, 1)^n$
16 ²⁵ : 16 ⁵⁰	Aliev Akbar, <u>Shafieva Gulshan</u> , Blow-up of solutions of a mixed problem for wave equations with a nonlinear transmission condition and interior focusing source of variable order of growth
16 ⁵⁰ : 17 ¹⁵	<u>Koliskina Valentina</u>, Kolyshkin Andrei, Volodko Inta , Thermal Convection in an Annulus: a Linear Stability Analysis
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Adiguzel Hakan</u>, Can Engin , An Analysis of Positive Solutions to Fractional Differential Equations
18 ¹⁰ : 18 ³⁵	<u>Nurbek Kakharman</u>, Tynysbek Kalmenov , Initial boundary value problem for noncharacteristic degenerate hyperbolic equations
18 ³⁵ : 19 ⁰⁰	<u>Prikazchikov Danila</u>, Kaplunov Julius , Modelling Rayleigh and Rayleigh-type waves by reduced scalar PDEs
19 ⁰⁰ : 19 ²⁵	Shavadze Tea , About Continuity of Solution on the Initial Data for a Neutral Differential Equation

August 30, Tuesday

Online	Chairman: Shavlakadze Nugzar
16 ⁰⁰ : 16 ²⁵	<u>Kapanadze David</u>, <u>Pesetskaya Ekaterina</u> , Half plane diffraction problems on triangular lattice
16 ²⁵ : 16 ⁵⁰	Gulua David , About One Approximate Method for Solving an Abstract Evolutionary Problem
16 ⁵⁰ : 17 ¹⁵	Ediberidze Ana , Localized boundary-domain integral equations method of nonhomogeneous isotropic couple-stress elasticity theory for Dirichlet and Neumann pseudo-oscillation problems
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	
18 ¹⁰ : 18 ³⁵	Kasumov Zaur , <u>Ahmadzade Nigar</u> , On some properties of the Riesz potential in the grand Lebesgue and grand Sobolev spaces
18 ³⁵ : 19 ⁰⁰	Danelia Anano , Thermo-elastic and thermo-piezo-elastic interaction crack type problems with regard of the microrotation

August 31, Wednesday

Online	Chairman: Chkadua Otar
10 ⁰⁰ : 10 ²⁵	<u>Lunyov Anton A.</u>, <u>Malamud Mark M.</u> , On Riesz basis property for $n \times n$ Dirac type operators. Application to Timoshenko beam model
10 ²⁵ : 10 ⁵⁰	Mustafayev Eldar M. , <u>Muradova Shemsiyye A.</u> , The dispersion problem with a measure type singular potential
10 ⁵⁰ : 11 ¹⁵	Kovtunenکو Victor , Poroelastic Medium with Non-Penetrating Crack Driven by Hydraulic Fracture

September 1, Thursday

Room 3	Chairman: Duduchava Roland
$10^{00} : 10^{25}$	<u>Natroshvili David</u>, <u>Tsertsvadze Tornike</u> , On an alternative approach for mixed boundary value problems for the Lamé system
$10^{25} : 10^{50}$	<u>Shavlakadze Nugzar</u>, <u>Pachulia Bachuki</u> , Dynamical contact problems for a viscoelastic half-space with an elastic inclusion
$10^{50} : 11^{15}$	<u>Smadiyeva Asselya</u> , On an initial-boundary-value problems for the time-fractional diffusion equation
$11^{15} : 11^{45}$	Coffee break
$11^{45} : 12^{10}$	<u>Budkina Natalja</u>, <u>Kolyshkin Andrei</u> , Derivation of the Ginzburg-Landau equation for a Convective Flow in a Vertical Fluid Layer
$12^{10} : 12^{35}$	<u>Lekveishvili David</u>, <u>Chumburidze Manana</u> , About one functional inequality
$12^{35} : 13^{00}$	<u>Duduchava Roland</u>, <u>Tsaava Medea</u>, <u>Tutberidze Margarita</u> , Mixed and transmission type boundary value problems for the Helmholtz equation on a surface with Lipschitz boundary
$13^{00} : 13^{25}$	<u>Koliskina Valentina</u>, <u>Kolyshkin Andrei</u>, <u>Volodko Inta</u> , Stability of a Convective Flow due to Internal Heat Sources in a Magnetic Field

September 2, Friday

Online	Chairman: Natroshvili David
16 ⁰⁰ : 16 ²⁵	<u>Jokhadze Otar, Kharibegashvili Sergo</u> , On the solvability of a mixed problem for one class of second-order nonlinear hyperbolic systems
16 ²⁵ : 16 ⁵⁰	<u>Giorgashvili Levan, Zazashvili Shota</u> , Effective solution of Dirichlet and Neumann BVP of the theory of thermoelasticity of microstretch materials with micro-temperatures and micro-dilatations for a ball
16 ⁵⁰ : 17 ¹⁵	<u>Toloraia Anika</u> , Mixed Type Boundary-transmission problems with Interior Cracks of the thermo-piezo-electricity theory without energy dissipation
17 ¹⁵ : 17 ⁴⁵	Coffee break
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18 ¹⁰ : 18 ³⁵	<u>Rabinovich Vladimir</u> , Interaction problems on periodic hypersurfaces for Dirac operators on R^n
18 ³⁵ : 19 ⁰⁰	<u>Selmi Wafa, Timoumi Mohsen</u> , Infinitely many solutions for fractional Hamiltonian systems

Logic, Language, Artificial Intelligence

August 30, Tuesday

Room 6	Chairman: Dundua Besik
16 ⁰⁰ : 16 ²⁰	<u>Akhobadze Merab, Kurtskhalia Elgudja</u> , Algorithm for finding a safe path based on the modified Voronoi diagram method

16 ²⁰ : 16 ⁴⁰	<u>Sarajishvili Tsitsino, Kikvadze Taniel</u> , Machine Translation and Human Capabilities
16 ⁴⁰ : 17 ⁰⁰	Kumar Sanjeev , Fuzzy Expert System to Model the Breast Cancer Diagnosis and its Prognosis
17 ⁰⁰ : 17 ²⁰	<u>Abuladze Inga, Okhanasvili Maia, Gabashvili Natalia, Gabashvili Tamar</u> , Solving Artificial Intelligence Tasks Using Machine Learning Methods
17 ²⁰ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ⁰⁵	<u>Rukhaia Mikheil, Kutsia Temur</u> , Towards Similarity-based Set Unification
18 ⁰⁵ : 18 ²⁵	<u>Dundua Besik, Kutsia Temur, Marin Mircea, Pau Cleopatra</u> , Solving Symbolic Equations with Multiple Similarity Relations
18 ²⁵ : 18 ⁴⁵	<u>Dundua Besik, Amiridze Nino, Chutkerashvili Anna, Kutsia Temur</u> , Towards a Grammar for a Georgian CNL
18 ⁴⁵ : 19 ⁰⁵	<u>Tibua Lali, Dundua Besik, Rukhaia Mikheil</u> , Probabilistic Unranked Predicate Logic

August 31, Wednesday

Online	Chairman: Pkhakadze Konstantine
10 ⁰⁰ : 10 ²⁵	Mikaberidze Beso , Brief Overview of the first Results of the PhD Thesis “Formalism and Applications of Georgian Language Processing by Machine Learning Methods”
10 ²⁵ : 10 ⁵⁰	Okroshvili Nodar , An Overview of the First Theoretical Results of the Doctoral Thesis “Georgian-Mathematical Two-Way Automatic Translator”

10 ⁵⁰ : 11 ¹⁵	<u>Pkhakadze Konstantine</u>, Malidze Shalva, Chichua George, Chikvinidze Merab, Mikaberidze Beso, Okroshvashvili Nodar , In the European Union with the Georgian and Abkhazian Languages - The Concept of Development of Georgian and Abkhazian Language Technologies in Georgia
11 ¹⁵ : 11 ⁴⁰	Gegenava Nino , About Teaching English and Georgian Conjugation in Georgian Schools

Mathematical Education and History

August 29, Monday

Room 4	Chairman: Gogishvili Guram
16 ⁰⁰ : 16 ²⁵	Gogishvili Guram , On the Development of Creative Skills in Teaching Mathematics
16 ²⁵ : 16 ⁵⁰	Turmanidze Lela, Tavdgiridze Giuli, <u>Beridze Mari</u> , Challenges of Problem-Based Learning in Georgian Secondary Schools
16 ⁵⁰ : 17 ¹⁵	Mardaleishvili Nino , On the Use of Certain Informative-Communicative Technologies in the Learning Process
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Kutkhashvili Ketevan</u>, Karalashvili Liana , Fundamental Concepts of Mathematics and Algorithms
18 ¹⁰ : 18 ³⁵	<u>Manukyan Vardan</u>, Nikoghosyan Gagik , On One Intersubject Relationship of Mathematics and Physics

18 ³⁵ : 19 ⁰⁰	Khvoles Aben , About Teaching of Mathematics at Preparatory Departments
19 ⁰⁰ : 19 ²⁵	Mebonia Ia , About the Organization of Distance Learning (Online)

August 30, Tuesday

Room 4	Chairman: Vepkhvadze Teimuraz
16 ⁰⁰ : 16 ²⁵	Vepkhvadze Teimuraz , Introduction of Mathematical Notions in the School Course of Mathematics
16 ²⁵ : 16 ⁵⁰	<u>Tarieladze Vaja, Nikoleishvili Mikheil</u> , On Equivalence of Bernoulli's and Cauchy's Inequalities
16 ⁵⁰ : 17 ¹⁵	<u>Deisadze Manana, Kirtadze Shalva</u> , The Planning Principles of Topical Unit – Matrix in Mathematics on the Elementary Level
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Gokadze Ivane, Adeishvili Vladimer</u> , Pell's Equation
18 ¹⁰ : 18 ³⁵	Giorgadze Teimuraz , Building Skills of Reasoning in Mathematics
18 ³⁵ : 19 ⁰⁰	Butsukhishvili Mamuli , Mathematical Language at School and its Functions
19 ⁰⁰ : 19 ²⁵	Zivzivadze Manana , The Role of Developmental Assessment in Improving Student Achievement

Mathematical Logic and Discrete Mathematics

September 1, Thursday

Room 6	Chairman: Kirtadze Aleks
$10^{00} : 10^{25}$	Di Nola Antonio, <u>Grigolia Revaz</u>, Vitale Gaetano , Epistemic Łukasiewicz Logic of Partial Knowledge
$10^{25} : 10^{50}$	Beriashvili Mariam , The Uniform Subsets and the Problem of Generalized Measurability
$10^{50} : 11^{15}$	Khachidze Marika , On Almost Invariant Sets and their Measurable Hulls
$11^{15} : 11^{45}$	Coffee break
$11^{45} : 12^{10}$	Beriashvili Shalva , On Combinatorial Properties of Algebraic Plane Curves
$12^{10} : 12^{35}$	Kasrashvili Tamar , Some Remarks on Equidecomposability of Sets
$12^{35} : 13^{00}$	<u>Kirtadze Aleks</u>, Beraia Lika , On Some Properties of Small Sets

Mathematical Modeling and Numerical Analysis

August 29, Monday

Room 5	Chairman: Meladze Hamlet
$16^{00} : 16^{25}$	Davitashvili Tinatin, <u>Meladze Hamlet</u> , One Economical Method of Solving the Multidimensional Non-stationary Problem for the System of Hyperbolic Equations
$16^{25} : 16^{50}$	Devadze David , Optimal Control Problem for one Contact Problem with Nonlocal Boundary Conditions

16 ⁵⁰ : 17 ¹⁵	Beridze Vakhtang , Numerical Solution of one Contact Problem with Nonlocal Boundary Conditions for Elliptic Equation
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Kublashvili Murman</u>, Sanikidze Zaza, Kublashvili Mirian , About some Numerical Schemes Constructed for the Calculation of Engineering Details with Cracks
18 ¹⁰ : 18 ³⁵	<u>Zakradze Mamuli</u>, Tabagari Zaza, Koblshvili Nana , The Numerical Solution of the External Dirichlet Generalized Harmonic Problem for a Sphere by the Method of Probabilistic Solution

August 30, Tuesday

Room 5	Chairman: Chilachava Temur
16 ⁰⁰ : 16 ²⁵	<u>Chilachava Temur</u>, Pochkhua George , Bipolar and Three-pole Political Mathematical Models
16 ²⁵ : 16 ⁵⁰	Kereselidze Nugzar , About the New Spreading Model of the SARS-CoV-2 Virus and Security Management Issues
16 ⁵⁰ : 17 ¹⁵	Baghaturia Giorgi, <u>Menteshashvili Marina</u> , On a Cauchy Problem with Closed Support of Data and its Discrete Analogue
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	† Gogoberidze Nikoloz, <u>Papitashvili Alexander</u> , New approach to mathematical genetics. Mathematical patterns of fetal development-special mathematical setting for the decisive endpoints in the growth and development of the fetus

18 ¹⁰ : 18 ³⁵	Tsiramua Sergo , Optimal Management of Systems with Reconfigurable Structure
18 ³⁵ : 19 ⁰⁰	Tsiklauri Zviad , Approximate Solution of a Timoshenko Dynamic Beam Equation

September 1, Thursday

Room 5	Chairman: Jangveladze Temur
10 ⁰⁰ : 10 ²⁵	Chkhikvadze Teimuraz, Jangveladze Temur, <u>Paikidze Tamar</u> , On Investigation and Numerical Solution of One Nonlinear Fourth order Integro-differential Model
10 ²⁵ : 10 ⁵⁰	Gagoshidze Mikheil, Jangveladze Temur, <u>Mzhavanadze Nino</u> , Asymptotic Properties and Approximate Solution of Initial-Boundary Value Problem for One Nonlinear Partial Differential Model
10 ⁵⁰ : 11 ¹⁵	Rogava Jemal, <u>Vashakidze Zurab</u> , A Combination of a Three-layer Semi- discrete Scheme and Legendre-Galerkin Spectral Approximation for the Nonlinear Dynamic Kirchhoff String Equation
11 ¹⁵ : 11 ⁴⁵	Coffee break
11 ⁴⁵ : 12 ¹⁰	Jafarzadeh Yossef , Numerical Solutions for the Nonlinear Partial Fractional Differential Equations Using the Triple Laplace Transform
12 ¹⁰ : 12 ³⁵	Tsotniashvili Soso, Ugulava Duglas, <u>Zarnadze David</u> , On Canonical Commutation Relation for Creation and Annihilation Operators in the Strict Quantum Frechet - Hilbert Space of States (Online)

September 2, Friday

Online	Chairman: Davitashvili Tinatin
16 ⁰⁰ : 16 ²⁵	Makarov Volodimir, <u>Vashakmadze Tamaz</u>, Meladze Hamlet, Buzhghulashvili Giorgi , Computational Schemes and their Numerical Realization for Boundary Value Problems for ODE with Generalized Solutions
16 ²⁵ : 16 ⁵⁰	Khatiashvili Nino , On the Novel Exact Solutions of Navier Stokes Equations
16 ⁵⁰ : 17 ¹⁵	<u>Papukashvili Archil</u>, Geladze Giorgi, Vashakidze Zurab, Sharikadze Meri , On the Algorithm of an Approximate Solution and Numerical Computations for the J. Ball Nonlinear Integro-Differential Equation
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	Bogdanov Oleksandr , Stochastic Epidemic Model with Limited Treatment
18 ¹⁰ : 18 ³⁵	Assanova Anar , Integro-differential Equations with Boundary Conditions and their Properties
18 ³⁵ : 19 ⁰⁰	Peradze Jemal , A Jacobi-Cardano Iteration Process for Solution of a Timoshenko Nonlinear System of Discrete Equations

Mathematical Physics

September 2, Friday

Room 6	Chairman: Khunjua Tamaz
16 ⁰⁰ : 16 ²⁵	<u>Khompysh Khonatbek</u>, Antontsev Stanislav N. , An inverse problem for heat convection system of Kelvin-Voigt fluids
16 ²⁵ : 16 ⁵⁰	Tediashvili Zurab , On the Solution of the Roben BVP of Thermo-Electro-Magneto Elasticity for Half Space
16 ⁵⁰ : 17 ¹⁵	<u>Tsutskiridze Badri</u>, Tsutskiridze Mari , On exact solution of one task of magnetic hydrodynamic
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Khunjua Tamaz</u>, Klimenko Konstantin, Zhokhov Roman , Influence of chiral asymmetry on phase structure of the 2- and 3-color quark matter
18 ¹⁰ : 18 ³⁵	Ugulava Duglas, <u>Zarnadze David</u> , Canonical commutation relation for orbital operators corresponding to creation and Annihilation operators (online)
18 ³⁵ : 19 ⁰⁰	Nishnianidze David , Generalization of SUSY Intertwining Relations: New Exact Solutions of Fokker-Planck Equation" (online)
19 ⁰⁰ : 19 ²⁵	Svanadze Kosta , On finding a proper number and proper vector-function for first plane interior homogeneous boundary value problem of stationary oscillations with regard to moment strains (online)

Probability Theory and Statistics, Financial Mathematics

August 29, Monday

Room 6	Chairman: Purtukhia Omar
16 ⁰⁰ : 16 ²⁵	Kachiashvili Kartlos , One approach for testing asymmetrical hypotheses
16 ²⁵ : 16 ⁵⁰	Giorgobiani George , <u>Kvaratskhelia Vakhtang</u> , On the moments of probability distributions
16 ⁵⁰ : 17 ¹⁵	Namgalauri Ekaterine , <u>Purtukhia Omar</u> , Stochastic integral representation of a Class of non-smooth Brownian functionals
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	Chamiashvili Nino , Claim risk model estimation for non-life insurance
18 ¹⁰ : 18 ³⁵	Shatashvili Albert , <u>Didmanidze Ibraim</u> , Papazova Elena , Fomin-Shatashvili Tamara , Ivakhnenko Natalia , Zaslavski Vladimir , Construction of mutually unambiguous linear transformations for solving edge problems of Dirichlet-Neumann, excited by Gaussian random fields in the Euclidean space R^n

August 30, Tuesday

Online	Chairman: Kvaratskhelia Vakhtang
16 ⁰⁰ : 16 ²⁵	<u>Knopov Pavel</u> , Kasitskaya Evgeniya , On consistency and large deviations of empirical estimates for stochastic programming problems
16 ²⁵ : 16 ⁵⁰	Knopova Victoria , On construction and properties of some Levy-type processes

16 ⁵⁰ : 17 ¹⁵	Mokanu Yana , On ergodicity of Levy-type processes on R
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Livinska Hanna</u>, Makushenko Igor, Usar Iryna, Sharapov Michael , On stationary probabilities of multi channel retrial queueing systems with thresholds
18 ¹⁰ : 18 ³⁵	<u>Pashchuk Iryna</u>, Livinska Hanna , Modeling of health and mortality functions based on data for the population of Ukraine
18 ³⁵ : 19 ⁰⁰	Pepeliaieva Tetiana, <u>Shpyha Serhii</u> , On the optimal control of stochastic dynamic systems with fractional white noise

September 1, Thursday

Online	Chairman: Tarieladze Vaja
10 ⁰⁰ : 10 ²⁵	Babilua Petre, <u>Nadaraya Elizbar</u> , On the One Nonparametric Estimate of Poisson Regression Function
10 ²⁵ : 10 ⁵⁰	<u>Zerakidze Zurab</u>, Kiria Jemal, Kiria Tengiz , Multiple Linear Regression Model
10 ⁵⁰ : 11 ¹⁵	<u>Kvatadze Zurab</u>, Pharjiani Beqnu , Regarding the Limit Distribution of the Chain m Dependent Sum of a Sequence

Real and Complex Analysis

August 29, Monday

Plenary Room	Chairman: Meskhi Alexander
$16^{00} : 16^{25}$	<u>Makharadze Dali</u> , † Kokilashvili Vakhtang , The inequalities for trigonometric polynomials and entire functions of finite order in generalized weighted grand Lebesgue spaces
$16^{25} : 16^{50}$	Borodachov Sergiy , Extreme Values of Potentials of Spherical Designs and the Polarization Problem
$16^{50} : 17^{15}$	Oniani Giorgi , On sets of divergence of Fourier series in systems of characters for compact Abelian groups
$17^{15} : 17^{45}$	Coffee break
$17^{45} : 18^{10}$	Imerlishvili Giorgi , One-sided fractional integrals in one-sided Morrey spaces
$18^{10} : 18^{35}$	Meskhi Alexander , Weighted Extrapolation in Grand Morrey Spaces Beyond the Muckenhoupt Range
$18^{35} : 19^{00}$	Tulenov Kanat , On boundedness of the higher dimensional Hilbert operator in rearrangement invariant spaces
$19^{00} : 19^{25}$	Japaridze Irakli , On the differentiation of integrals with respect to translation invariant density bases

August 30, Tuesday

Plenary Room	Chairman: Tephnadze George
16 ⁰⁰ : 16 ²⁵	Persson Lars-Erik, Schipp Ferenc, <u>Tephnadze George</u>, Weisz Ferenc , Almost everywhere convergence of partial sums and certain summability methods of trigonometric and Vilenkin systems
16 ²⁵ : 16 ⁵⁰	<u>Giorgobiani George</u>, Manjavidze Nino , On a condition for the affinity of the sum range of the series in a normed space
16 ⁵⁰ : 17 ¹⁵	<u>Tutberidze Giorgi</u>, Tsagareishvili Vakhtang , Some problems of convergence of general Fourier series
17 ¹⁵ : 17 ⁴⁵	Coffee break
17 ⁴⁵ : 18 ¹⁰	<u>Chobanyan Sergei</u>, Bakuridze Mzevinar, Tarieladze Vaja , On perfect and potentially convergence systems
18 ¹⁰ : 18 ³⁵	Areshidze Nika , Convergence of differentiated general Dirichlet's integrals
18 ³⁵ : 19 ⁰⁰	Eskisehirli Beyaz Basak , Spectral Properties of Two Classes of Toeplitz Operators on $H_p, 1 < p < \infty$.
19 ⁰⁰ : 19 ²⁵	Vyas Vijay Kumarv , q-Laplace transforms for the product of basic analogue for H-functions for two variables and the general class of q-polynomials

September 1, Thursday

Online	Chairman: Oniani Giorgi
10 ⁰⁰ : 10 ²⁵	<u>Uysal Badik Huseyin</u>, Basar Esra, Yasar Seyma, Oztop Serap , Classification of s-Norms in Orlicz Spaces
10 ²⁵ : 10 ⁵⁰	<u>Basar Esra</u>, Uysal Badik Huseyin, Yasar Seyma, Oztop Serap , Extreme Points of Unit Ball in Orlicz Spaces equipped with s-norms
10 ⁵⁰ : 11 ¹⁵	<u>Yasar Seyma</u>, Basar Esra, Uysal Badik Huseyin, Oztop Serap , Closedness of $Ext B(L_s^\varphi)$
11 ¹⁵ : 11 ⁴⁵	Coffee break
11 ⁴⁵ : 12 ¹⁰	Cardona Duvan , Fefferman-Stein theory on Lie groups of polynomial growth: geometric aspects and the role of the symmetries
12 ¹⁰ : 12 ³⁵	Bandaliyev Rovshan , On boundedness of multidimensional Hausdorff operator in weighted Lebesgue spaces
12 ³⁵ : 13 ⁰⁰	<u>Guedri Rihab</u>, Attia Najmeddine , A note on the generalized Hausdorff and packing measures of product sets in metric space.
13 ⁰⁰ : 13 ²⁵	<u>Tetvadze Giorgi</u>, Tetvadze Lili, Tvalodze Iuri, Tsibadze Lamara , On tangential limit of Blaschke-Djrbashyan Canonical product

September 2, Friday

Online or Room 2	Chairman: Giorgobiani George
16 ⁰⁰ : 16 ²⁵	Magrakvelidze Dali , Risk assessment by using fuzzy mathematical expectation

$16^{25} : 16^{50}$	Macharashvili Nodar , Summability of differentiated sequence of the Fourier series with respect to system of generalized spherical functions by (C, α) method
$16^{50} : 17^{15}$	Krichen Bilel , Demicompactness classes
$17^{15} : 17^{45}$	Coffee break
$17^{45} : 18^{10}$	Tsivtsivadze Irma, Dzagnidze Omar , Sumability of a double trigonometric Fourier series by Riemann's R^2 method
$18^{10} : 18^{35}$	Najafzadeh Shahram , Applications of q-analogue of Noor operator on univalent functions related to finitely many coefficients
$18^{35} : 19^{00}$	Shebrawi Khalid, Alkharabsheh Tasnim , Numerical Radius Inequalities

Mini-Symposium: Algebraic Geometry, Geometric and Homological Algebra of Groups

August 31, Wednesday

Plenary Room	Chairman: Miasnikov Alexei
$10^{00} : 10^{25}$	Miasnikov Alexei , Algebraic Geometry over Free Nilpotent Groups: Perspectives and Open Problems.
$10^{25} : 10^{50}$	Kharlampovich Olga , AE-theories of Free Groups and Towers
$10^{50} : 11^{15}$	Bakuradze Malkhaz , On Cohomological Realization of the Buchstaber Formal Group Law
$11^{15} : 11^{45}$	Coffee break
$11^{45} : 12^{10}$	Amaglobeli Mikheil , On the Variety of Exponential MR-groups
$12^{10} : 12^{35}$	Bokelavadze Tengiz , W-power Groups
$12^{35} : 13^{00}$	Nadiradze Teona , MR- Group Theory

Mini-Symposium: Topology in Georgia

September 1, Thursday

Plenary Room	Chairman: Khimshiashvili Giorgi
10 ⁰⁰ : 10 ⁵⁰	Janelidze George , George Chogoshvili. History and Unasked Questions
10 ⁵⁰ : 11 ¹⁵	Pirashvili Teimuraz , Aleksandre Chigogidze: My Friend and Colleague
11 ¹⁵ : 11 ⁴⁵	Coffee break
11 ⁴⁵ : 12 ¹⁰	Kadeishvili Tornike , Nodar Berikashvili and His School
12 ¹⁰ : 12 ³⁵	Baladze Vladimer , Topology in Batumi
12 ³⁵ : 13 ⁰⁰	Beridze Anzor , Leonard Mdzinarishvili and Strong Homology Theory

September 2, Friday

Plenary Room	Chairman: Pirashvili Teimuraz
16 ⁰⁰ : 16 ²⁵	Balavadze Mikheil , George Chogoshvili's Contribution to the Development of Homology Theory
16 ²⁵ : 16 ⁵⁰	Jibladze Mamuka , Survey of Mathematical Work of Dito Pataraiia
16 ⁵⁰ : 17 ¹⁵	Bakuradze Malkhaz , On Nadiradze's Work on Formal Group Laws
17 ¹⁵ : 17 ⁴⁵	Coffee break

$17^{45} : 18^{10}$	Khimshiashvili Giorgi , On generalized Apollonius pursuit problem
$18^{10} : 18^{35}$	Dvalishvili Badri , Fine topologies, Everett-Ulam's problem for simple extensions and other applications of bitopologies

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