

V INTERNATIONAL CONFERENCE OF THE
GEORGIAN MATHEMATICAL UNION

P R O G R A M

TBILISI – BATUMI, SEPTEMBER 8 – 12, 2014

ORGANIZERS

Georgian National Academy of Science
Georgian Mathematical Union
Shota Rustaveli Batumi State University

ORGANIZING COMMITTEE

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CONFERENCE SECTIONS

- Algebra, Topology, Geometry and Number Theory
Chairmans T.Qadeishvili and T.Vepkhvadze
- Applied Logic and Programming
Chairman Kh.Rukhaia
- Logic of Natural Languages and Computational Linguistics
Chairman K.Phakadze
- Continuum Mechanics
Chairman T.Buchukuri
- Differential Equations and their Applications
Chairmans R.Duduchava and O.Chkadua
- Mathematical Education and History
Chairman G.Gogishvili

- Mathematical modeling and numerical analysis
Chairmans H.Meladze and T.Chilachava
- Probability, Statistics, Financial Mathematics
Chairman G.Sokhadze
- Real and complex analysis
Chairmans A.Meskhi and U.Goginava
- Theoretical Physics
Chairman A.Kvinikhidze

INVITED SPEAKERS

Vladimer Baladze, Alexander Bufetov, Roland Duduchava, Merab Gogberashvili, Guram Gogishvili, Omar Glonti, Tornike Kadeishvili, Alexander Kvinikhidze, Alexander Meskhi, Mohammad Sal Moslehian, Dmitri Orlov, Konstantine Pkhakadze, Armen Sergeev, Samson Shatashvili, Leon A. Takhtajan, Cem Yalçın Yildirim.

SCHEDULE OF THE CONFERENCE

7 September, Sunday (Arrival day to Batumi)

8 September, Monday

9⁰⁰ : 9⁴⁰ **Registration**

9⁴⁰ : 10⁰⁰ **Opening of the Conference**

Room 1 **Chairman: Duduchava Roland**

10⁰⁰ : 10⁵⁰ **Shatashvili Samson, Yang-Yang Functional, Gauge Theory and Quantisation of Integrable Systems**

1050 : 1120 **Coffee break**

11²⁰ : 12³⁰ **Takhtajan Leon A., On Spectral Theory of One-Functional Difference Operator**

12⁴⁰ : 13³⁰ **Mesghi Alexander, Multisublinear Maximal Operators in Banach Function Lattices**

Room 2 **Chairman: Bufetov Alexander**

12⁴⁰ : 13³⁰ **Kadeishvili Tornike, On the Multiplicative Structure in the Bar Construction**

13³⁰ : 15³⁰ **Dinner**

15³⁰ : 17⁰⁰ **Parallel Sessions: ATGNT 1, ALP 1, CM 1, DEA 1, MMNA 1, PSFM 1, RKA 1, TP 1, LNL CL 1**

17⁰⁰ : 17³⁰ **Coffee break**

17³⁰ : 19⁰⁰ **Parallel Sessions: ATGNT 2, CM 2, DEA 2, MMNA 2, PSFM 2, RKA 2, TP 2, LNL CL 2**

9 September, Tuesday

9⁰⁰ : 10⁰⁰ **Registration**

Room 1 **Chairman: Tanbay Betul**

10⁰⁰ : 10⁵⁰ **Yildirim Cem Yalçın, Some Analogues of Pair Correlation of Zeta Zeros**

10⁵⁰ : 11²⁰ **Coffee break**

11 ²⁰ : 12 ³⁰	Sergeev Armen , Harmonic Spheres and Yang-Mills Fields
12 ⁴⁰ : 13 ³⁰	Buchukuri Tengiz, Duduchava Roland, Tephnadze George , Laplace-Beltrami Equation on Hypersurfaces and Γ -Convergence
Room 2	Chairman: Dehghan Mohammed Ali
11 ⁴⁰ : 13 ³⁰	Baladze Vladimer , (Co)Shape Classifications of Continuous Maps, their Algebraic Functors and Dimensional Type Functions
13 ³⁰ : 15 ⁰⁰	Dinner
15 ⁰⁰ : 16 ³⁰	Parallel Sessions ATGNT 3, ALP 2, CM 3, DEA 3, MEH 1, MMNA 3, PSFM 3, RKA 3, LNL CL 3
16 ³⁰ : 17 ⁰⁰	Coffee break
17 ⁰⁰ : 18 ⁰⁰	Parallel Sessions: ATGNT 4, ALP 3, CM 4, DEA 4, MEH 2, MMNA 4, PSFM 4, RKA 4, LNL CL 4

19⁰⁰ - 23⁰⁰ **Conference Dinner**

10 September, Wednesday – **Social Program**

11 September, Thursday

Room 1	Chairman: Sergeev Armen
10 ⁰⁰ : 10 ⁵⁰	Orlov Dmitri , Smooth Noncommutative Varieties, their Gluing and Phantoms
10 ⁵⁰ : 11 ²⁰	Coffee break
11 ²⁰ : 12 ³⁰	Moslehian Mohammad Sal , Operator Chebyshev Type Inequalities and their Reverses
12 ⁴⁰ : 13 ³⁰	Glonti Omar , The Measure of Dependence of Two Brownian Functionals
Room 2	Chairman: Pkhakadze Konstantine
12 ⁴⁰ : 13 ³⁰	Giunashvili Zakaria, Gogishvili Guram, Vepkhvadze Teimuraz, Kordzadze Ekaterine , Actual Problems of Teaching of Mathematics

$11^{40} : 13^{30}$	Dinner
$13^{30} : 15^{30}$	Parallel Sessions: ATGNT 5, CM 5, DEA 5, MEH 3, MMNA 5, PSFM 5, RKA 5, LNL CL 5
$15^{30} : 17^{00}$	Coffee break
$17^{00} : 17^{30}$	Parallel Sessions: ATGNT 6, DEA 6, MMNA 6, RKA 6, LNL CL 6

12 September, Friday

Room 1	Chairman: Harutyunyan Tigran
$10^{00} : 10^{50}$	Bufetov Alexander , Decomposition of Infinite Unitarily-Invariant Measures on Spaces of Infinite Complex Matrices
$10^{50} : 11^{20}$	Coffee break
$11^{20} : 12^{30}$	Kvinikhidze Alexander , Gauge Invariant EFT for Dressed Nucleons
$12^{40} : 13^{30}$	Gogberashvili Merab , Gravi-Electro Analogies in the Past and Future
Room 2	Chairman: Chkadua Otar
$12^{40} : 13^{30}$	Pkhakadze Konstantine , Shalva Pkhakadze's Notation Theory and the Georgian Theory of the Genesis of the Different Natural Language Systems
$13^{30} : 13^{40}$	Closing of the Conference
$13^{40} : 15^{30}$	Dinner
$15^{30} : 17^{00}$	Parallel Sessions: ATGNT 7, DEA 7, RKA 7
$17^{00} : 17^{30}$	Coffee break
$17^{30} : 19^{00}$	Parallel Sessions: ATGNT 8

Section: Algebra, Topology, Geometry and Number Theory / ATGNT

September 8, Monday

ATGNT 1 **Chairman: Surmanidze Onise**

Room 3

- 15³⁰ : 16⁰⁰ **Surmanidze Onise.** Universal Groups
- 16⁰⁰ : 16³⁰ **Khaburdzania Razhden.** On 3-Conjugate Systems in a Five-Dimensional Extended Affine
- 16³⁰ : 17⁰⁰ **Kaledin Dmitry.** On p-typical curves in algebraic K-theory
- 17⁰⁰ : 17³⁰ **Coffee break**

ATGNT 2

Room 3

Chairman: Surmanidze Onise

- 17³⁰ : 18⁰⁰ **Beridze Anzor, Baladze Vladimer,** Strong Shape and Homology Theories of Continuous Map
- 18⁰⁰ : 18³⁰ **Tsinaridze Ruslan,** On equivariant fiber shape theory
- 18³⁰ : 19⁰⁰ **Turmanidze Lela,** On Cech's type continuous functors
- 19⁰⁰ : 19³⁰ **Rakviashvili Giorgi.** On Primitive Elements of free Lie p-Algebras

September 9, Tuesday

ATGNT 3

Room 3

Chairman: Vepkhvadze Teimuraz

- 15⁰⁰ : 15³⁰ **Vepkhvadze Teimuraz.** On the Number of representations of positive integers by the diagonal quadratic forms with coefficients that are ones and twos
- 15³⁰ : 16⁰⁰ **Movsisyan Yuri** Structures of algebras with hyperidentities of lattice varieties
- 16⁰⁰ : 16³⁰ **Dalalyan Samvel,** An algorithm for determining the irreducible polynomials over finite fields
- 16³⁰ : 17⁰⁰ **Bokelavadze Tengiz,** The W-Completion of an W-Torsion-Free W-Group

- 17⁰⁰ : 17³⁰ **Coffee break**
- ATGNT 4**
Room 3
17³⁰ : 18⁰⁰ **Ehsani Amir . Invertible Medial-like Algebras**
- 18⁰⁰ : 18³⁰ **Yarahmadi Zahra, An New Definition of Comaximal Graph of Commutative Ring**
- 18³⁰ : 19⁰⁰ **Azari Mahdieh, Some Wiener-like graph invariants of splice and link of graphs**
- 19⁰⁰ : 19³⁰ **Azari Mahdieh, Iranmanesh Ali, Computing some topological indices of thorn graphs**

September 11, Thursday

- ATGNT 5**
Room 3
15³⁰ : 16⁰⁰ **Yarahmadi Zahra, Study of Some Group Theoretical Concept of a Graph**
- 16⁰⁰ : 16³⁰ **Cevik Ali, Cekim Bayram, Aktas Rabia, On Extended Jacobi matrix polynomials**
- 16³⁰ : 17⁰⁰ **Moradi Sirous, Separation Theorem and Common Endpoint of Generalized Weak Contraction Mappings**
- 17⁰⁰ : 17³⁰ **Coffee break**
- ATGNT 6**
Room 3
17³⁰ : 18⁰⁰ **Bayramov Sadi, Mdzinarishvili Leonard, Gunduz Cigdem, Singular Homology Theory in the Category of Soft Topological Spaces**
- 18⁰⁰ : 18³⁰ **Ozturk Taha Yasin, Bayramov Sadi, Soft Compact-Open Topology in Soft Mappings Space**
- 18³⁰ : 19⁰⁰ **Gunduz Cigdem, Bayramov Sadi, Demirci Nesrin**

Inverse and Direct Systems of Soft topological Spaces
19⁰⁰ : 19³⁰ **Yasar Erol, Yakar Ali**, Submanifolds of a Riemannian Product Manifold admitting a Quarter-Symmetric Metric Connection

September 12, Friday

ATGNT 7
Room 3 **Chairman: Yazar Murat Ibrahim**

15³⁰ : 16⁰⁰ **Yazar Murat Ibrahim, Bilgin Tunay**, A new view on soft Hilbert Spaces

16⁰⁰ : 16³⁰ **Incesu Muhsin, Gursoy Osman**, Similarity Conditions of Spatial Bezier Curves and Surfaces

16³⁰ : 17⁰⁰ **Salimov Arif**, Some remarks on the geometry of anti-Kähler-Codazzi manifolds

17⁰⁰ : 17³⁰ **Coffee break**

ATGNT 8
Room 3 **Chairman: Yazar Murat Ibrahim**

17³⁰ : 18⁰⁰ **Yildirim Furkan, Salimov Arif**, Complete lifts of some tensor fields on cross-section in the semi-cotangent bundle

18⁰⁰ : 18³⁰ **Cengiz Nejmi**. Complete lifts of derivations to the tensor bundle

Section: Applied Logic and Programming / ALP

September 8, Monday

ALP 1 **Chairman: Rukhaia Khimuri**

Room 4

15³⁰ : 16⁰⁰ **Chankvetadze Gela, Miqanadze Gvantsa, Pkhakadze**

- Sopho.** Computer realization of solving unranked propositional logic formulas
- 16⁰⁰ : 16³⁰ **Fedulov Genadi, Iashvili Nugzari, Dzagania Tamazi, Padiurashvili Vladimer.** On technology of evaluating approximate solution for a class of combinatorial optimization
- 16³⁰ : 17⁰⁰ **Iashvili Nugzari, Dzagania Tamazi, Padiurashvili Vladimer.** Transportation problem of optimal distribution of trucks for transportation of ore

September 9, Tuesday

United Session of the Sections of the “Logic of Natural Languages and Computational Linguistics” and “Applied Logic and Programming” Dedicated to the Memory of Shalva Pkhakadze

ALP 2,
LNL CL 3
Room 4

Chairmans: Rukhaia Khimuri and Pkhakadze Konstantine

15⁰⁰ : 15³⁰ **Pkhakadze Konstantine.** A Short Overview of Shalva Pkhakadze’s Scientific and Pedagogical Activities

15³⁰ : 16⁰⁰ **Rukhaia Khimuri, Tibua Lali, Chankvetadze Gela.** Some Properties of Unranked Quantifiers

16⁰⁰ : 16³⁰ **Gasitashvili Zurab, Iashvili Giorgi.** Some problems of classification of threats and sources of information

16³⁰ : 17⁰⁰ **Coffee break**

ALP 3,
LNL CL 4
Room 4

Chairmans: Rukhaia Khimuri and Pkhakadze Konstantine

17⁰⁰ : 17³⁰ **Pkhakadze Konstantine.** Shalva Pkhakadze’s Notation Theory and the Georgian Theory of the Genesis of the

Different Natural Language Systems

17³⁰ : 18⁰⁰

Dundua Besik, Kutsia Temur. Constraint Logic Programming for Hedges and Contexts

18⁰⁰ : 18³⁰

Maskharashvili Alexander. The Contracting Symbols in Georgian and in Some other Languages

Section: Continuum Mechanics / CM

September 8, Monday

CM 1

Chairman: Buchukuri Tengiz

Room 5

15³⁰ : 16⁰⁰

Jaghmaidze Aslan, Zazashvili Shota, Meladze Revaz. Problems of Statics of the Linear Theory of Thermoelasticity for a Space with Spherical Cavity, with Microstretch Matherials and Microtemperatures

16⁰⁰ : 16³⁰

Karseladze Giorgi, Sadunishvili Guram. Problems of Stationary Oscillation of the Linear Theory of Thermoelasticity with Microtemperatures and Microstretch Matherials for a Ball

16³⁰ : 17⁰⁰

Skhvitaridze Ketevan, Kharashvili Maia, Elerdashvili Eka, Boundary Value Problems of the Linear Theory of Thermoelasticity with Microtemperatures for a Ball

17⁰⁰ : 17³⁰

Coffee Break

CM 2

Chairman: Karseladze Giorgi

Room 5

17³⁰ : 18⁰⁰

Buchukuri Tengiz, Duduchava Roland. Boundary Value Problems of Heat Transfer in Thin Layers.

18⁰⁰ : 18³⁰

Giorgashvili Levan, Metreveli David. Problems of Statics of Two-Components Elastic Mixtures for Half-Space

18³⁰ : 19⁰⁰ **Sarikadze Jondo, Tsutskiridze Badri, Jikidze Levan.**
The Conducting Liquid Flow Between Porous Walls
with Heat Transfer

September 9, Tuesday

CM 3
Room 5 **Chairman: Odishelidze Nana**

15⁰⁰ : 15³⁰ **Bezhushvili Yuri.** Solvebility of the Third and Fourth
Basic Three-Dimensional Dynamic Problems in
Hemitropic Elasticity

15³⁰ : 16⁰⁰ **Odishelidze Nana.** On the Partially Unknown
Boundary Problem of Plane Elasticity Theory

16⁰⁰ : 16³⁰ **Aslanishvili Tristan, Odishelidze Nana .** A Mixed
Problem of Plane Elasticity Theory for Double-
connected Domain

16³⁰ : 17⁰⁰ **Coffee break**

CM 4
Room 5 **Chairman: Sadunishvili Guram**

17⁰⁰ : 17³⁰ **Chalauri Giga, Odishelidze Nana.** On Construction of
Full-Strength Contour for cycle-Symmetric Problem
of Plane Elasticity Theory

17³⁰ : 18⁰⁰ **Chankvetadze Nugzar, Odishelidze Nana.** On
Construction of Full-Strength Contour For Axial-
Symmetric Problem of Plane Elasticity Theory

18⁰⁰ : 18³⁰ **Gachechiladze Roland,** Unilateral contact problems
with friction arising along the normal

September 11, Thursday

CM 5 **Chairman: Svanadze Kosta**

Room 5

15³⁰ : 16⁰⁰ **Ivanidze Diana.** Robin Type Boundary Transmission Problem of Thermoelastostatics for Hemitropic Composite Structures

16⁰⁰ : 16³⁰ **Ivanidze Marex.** Robin Type Boundary Transmission Problem of Thermoelastostatics for Anisotropic Composite Structures

16³⁰ : 17⁰⁰ **Svanadze Kosta.** On one Cyclic-Symmetric Problem of the Plane Theory of Elastic Mixture with a Partially Unknown Boundary

Section: Differential Equations and their Applications / DEA

September 8, Monday

DEA 1

Room 6

Chairman: Chkadua Otar

15³⁰ : 16⁰⁰ **Saks Romen.** The operators: curl and gradient divergence are selfadjoint in some subspaces of the L₂(G) space

16⁰⁰ : 16³⁰ **Tepnadze George, Duduchava Roland, Shargorodsky Eugene.** Extension of the unit normal vector field from a hypersurface and eikonal equation

16³⁰ : 17⁰⁰ **Sadykhova Nigar, Gadjiev Tahir.** Removable singularities of solutions of degenerate nonlinear elliptic equations

17⁰⁰ : 17³⁰ Coffee break

DEA 2

Room 6

Chairman: Buchukuri Tengiz

- 17³⁰ : 18⁰⁰ **Sokhadze Zaza.** Positive Solutions of Periodic Type Boundary Value Problems for First Order Singular Functional Differential Equations
- 18⁰⁰ : 18³⁰ **Aliev Akbar, Kazymov Anar.** On The Partially Large Solutions For Semilinear Hyperbolic Systems With Damping
- 18³⁰ : 19⁰⁰ **Gachechiladze Avtandil.** An Alternative Monotonicity Method in Quasi-variational Inequalities

September 9, Tuesday

DEA 3

Room 6

Chairman: Jangveladze Temur

- 15⁰⁰ : 15³⁰ **Marasi Hamidreza.** Auxiliary Fourier homotopy parameter method using He's polynomials for nonlinear differential equations

- 15³⁰ : 16⁰⁰ **Moradi Sirous.** Extended Volterra-Fredholm Integral Equation

- 16⁰⁰ : 16³⁰ **Gadjiev Tahir, Aliyev Soltan, Rasulov Rafiq.** Blow-up solutions some classes of the nonlinear parabolic equations

- 16³⁰ : 17⁰⁰ **Coffee break**

DEA 4

Room 6

Chairman: Saks Romen

- 17⁰⁰ : 17³⁰ **Buchukuri Tengiz, Duduchava Roland.** Boundary Value Problems of Heat Transfer in Thin Layers and Γ -Convergence

- 17³⁰ : 18⁰⁰ **Jangveladze Temur, Gagoshidze Mikheil.** On Numerical Solution of One Nonlinear Multi-

Dimensional System of Partial Differential Equations

Kiguradze Zurab, Kratsashvili Maia. On One

18⁰⁰ : 18³⁰ Nonlinear Model Describing Electromagnetic Field
Diffusion Process

September 11, Thursday

DEA 5

Room 6

Chairman: Kiguradze Zurab

15³⁰ : 16⁰⁰

Tsutsunava Tamta, Duduchava Roland, Tsaava Medea.
Mixed boundary value problems for the Laplace-
Beltrami equation

16⁰⁰ : 16³⁰

Dvalishvili Pridon, Gorgodze Nika. Variation formulas
of solution for a neutral functional-differential
equation considering delay function perturbation and
the continuous initial condition

16³⁰ : 17⁰⁰

Menteshashvili Marine, Bitsadze Rusudan. On one
mixed characteristic problem for a nonlinear oscillation
equation

17⁰⁰ : 17³⁰

Coffee break

DEA 6

Room 6

Chairman: Tephnadze George

17³⁰ : 18⁰⁰

Mizrak Ozgur. On Linearization of the Nonlinear
Schrödinger Equation with Potential

18⁰⁰ : 18³⁰

Manelidze Gela. Newtonian volume potential for the
Helmholtz equation in unbounded domains

September 12, Friday

DEA 7

Room 6

Chairman: Aliyev Yagub

15³⁰ : 16⁰⁰ **Gorgodze Nika, Ramishvili Ia.** Continuity of solution of the quasi-linear neutral functional differential equation with respect to perturbations of initial data and delay functions

16⁰⁰ : 16³⁰ **Kharibegashvili Sergo, Midodashvili Bidzina.** A nonlocal problem for semilinear multidimensional wave equation

16³⁰ : 17⁰⁰ **Aliyev Yagub.** Sturm-Liouville problems with quadratical and linear eigenparameter dependent boundary conditions

Section: Mathematical Education and History / MEH

September 9, Tuesday

MEH 1 Chairman: Gogishvili Guram
Room 7

15⁰⁰ : 15³⁰ **Gogishvili Guram.** On the Role of the History of Mathematics in Teaching of Mathematics

15³⁰ : 16⁰⁰ **Babilua Petre, Sokhadze Grigol.** Preparation for Teacher Certification Exams in Mathematics

16⁰⁰ : 16³⁰ **Dzidziguri Tsiala,** About Some Opportunities of Realization of Intersubject Communication

16³⁰ : 17⁰⁰ **Sarajishvili Tsitsino.** Some Aspects of Teaching Algorithms

17⁰⁰ : 17³⁰ **Coffee Break**

MEH 2 Chairman: Gogishvili Guram
Room 7

17³⁰ : 18⁰⁰ **Avaliani Zebur.** Some Teaching Problems of Percentage

18⁰⁰ : 18³⁰ **Babilua Petre, Patsatsia Mzevinar.** Teaching Probability and Statistics Using ICT

September 11, Thursday

MEH 3

Chairman: Vepkhvadze Teimuraz

Room 7

15³⁰ : 16⁰⁰

Vepkhvadze Teimuraz. About the Basic Principles for Compiling the School Mathematics Textbooks

16⁰⁰ : 16³⁰

Akhbari Roghayeh. Solving a Geometrical Exercise from Four Perspectives

16³⁰ : 17⁰⁰

Akhbari Roghayeh.. Exploring the Results of Thales Theorem and its Relationship to other Shapes Among Iranian Mathematic High School Students

Section: Mathematical modeling and numerical analysis / MMNA

September 8, Monday

MMNA 1

Chairman: Meladze Hamlet

Room 8

15³⁰ : 16⁰⁰

Chilachava Temur, Akhvlediani Gvantsa, Miruashvili Maia, Continuous mathematical models of information warfare with participation of authoritative international and interstate institutes

16⁰⁰ : 16³⁰

Chilachava Temur, Chakhvadze Alexander, Nonlinear mathematical and computer model of information warfare with participation of authoritative interstate institutes

16³⁰ : 17⁰⁰

Kereselidze Nugzar, Chilachava Temur, Kharashvili Ketevan, Nonlinear discrete mathematical and computer model of information warfare "an aggressor – the victim" with participation of interstate authoritative organizations

17⁰⁰ : 17³⁰

Coffee Break

MMNA 2

Chairman: Meladze Hamlet

Room 8

17³⁰ : 18⁰⁰

Khatiashvili Nino, Pirumova Kristine, Tevdoradze Manana, On the mathematical model of growth of

tumors of different forms

18⁰⁰ : 18³⁰

Bokelavadze Tengiz, Tsibadze Lamara, Integration in economics

18³⁰ : 19⁰⁰

Geladze Giorgi, Some aspects of numerical modeling of a mesoscale boundary layer of atmosphere

September 9, Tuesday

MMNA 3

Room 8

Chairman: Chilachava Temur

15⁰⁰ : 15³⁰

Gordeziani David, Davitashvili Tinatin, Meladze Hamlet, On a nonlocal contact problem for Poisson equation in rectangle area

15³⁰ : 16⁰⁰

Peradze Jemal, An equation for transverse displacement in a nonlinear problem of plate vibration

16⁰⁰ : 16³⁰

Berikelashvili Givi, Midodashvili Bidzina, On the two-stage finite-difference method for solving of a mixed boundary value problem for the Poisson equation

16³⁰ : 17⁰⁰

Coffee break

MMNA 4

Room 8

Chairman: Chilachava Temur

17⁰⁰ : 17³⁰

Davitashvili Teimuraz, Sharikadze Meri, On One mathematical model of in filtration in an inhomogeneous porous stratum

17³⁰ : 18⁰⁰

Karalashvili Liana Recursive formula for the certain type of centro-symmetric matrix the semi-discrete difference schemes

18⁰⁰ : 18³⁰

Papukashvili Archil, Vashakidze Zurab, On one method of approximate solution of Dirchlet boundary value problem of Poisson's equation for two

dimensional body having cross form

September 11, Thursday

MMNA 5 **Chairman: Davitashvili Tinatin, Kereselidze Nugzar**
Room 8

15³⁰ : 16⁰⁰ **Ghanbari M. Mojdeh D.A. Ramezani M.** A new approximation algorithm for minimum connected dominating set in wireless sensor networks

16⁰⁰ : 16³⁰ **Kutkhashvili Ketevan,** Construction of studying processes automated system by graph theory methods

16³⁰ : 17⁰⁰ **Tsiklauri Zviad,** The error of the iteration method for a Timoshenko type nonlinear beam equation

17⁰⁰ : 17³⁰ **Coffee break**

MMNA 6 **Chairman: Davitashvili Tinatin, Kereselidze Nugzar**
Room 8

17³⁰ : 18⁰⁰ **Magrakvelidze Dali** The marginal rate of substitution and its usage in the marginal preference calculation

18⁰⁰ : 18³⁰ **Ananiashvili Natela** About the one solution of the set partition problem

18³⁰ : 19⁰⁰ **Odisharia Vladimer** A one-dimensional problem for the Timoshenko beam

Section: Probability, Statistics, Financial Mathematics / PSFM

September 8, Monday

PSFM 1 **Chairman: Sokhadze Grigol**
Room 9

15³⁰ : 16⁰⁰ **Glonti Omar, Purtukhia Omar.** Martingale representation of nonsmooth Brownian functional of integral type and application in finance

- 16⁰⁰ : 16³⁰ Babilua Petre, Nadaraya Elizbar, Sokhadze Grigol,
About Integral Square Deviation of Two Estimators of
Bernoulli Regression Functions
- 16³⁰ : 17⁰⁰ Kvaratskhelia Vakhtang, Tarieladze Vaja, Vakhania
Nikoloz, Universal Gaussian random elements
- 17⁰⁰ : 17³⁰ Coffee break
- PSFM 2** Chairman: Sokhadze Grigol
Room 9
- 17³⁰ : 18⁰⁰ Mamporia Badri. Generalized Wiener process in a
Banach space

September 9, Tuesday

- PSFM 3** Chairman: Tarieladze Vaja
Room 9
- 15⁰⁰ : 15³⁰ Kucukaslan Mehmet. On Deferred Statistical
Convergence
- 15³⁰ : 16⁰⁰ Taheri Mohammad. How Is the role of copula function
in developed possibility?
- 16⁰⁰ : 16³⁰ Patsatsia Mzevinar, Tarieladze Vaja. SpT-sets
- 16³⁰ : 17⁰⁰ Coffee break
- PSFM 4** Chairman: Tarieladze Vaja
Room 9
- 17⁰⁰ : 17³⁰ Dotsenko Sergey. On the probability aspects of
backgammon

September 11, Thursday

- PSFM 5** Chairman: Mamporia Badri
Room 9
- 15³⁰ : 16⁰⁰ Sokhadze Grigol, Arabidze Dimitri. Integral

Functionals of the Nadaraya-Watson Regression Function

Dochviri Besarion, Babilua Petre, Jaoshvili Vakhtang, Sokhadze Grigol, On one problem of optimal stopping with incomplete data

Lominashvili Giorgi, Parametric Estimators of Logistical Distributions for Random Censored Samplings

Section: Real and complex analysis / RCA

September 8, Monday

RCA 1

Room 10

Chairman: Meskhi Alexander

15³⁰ : 16⁰⁰ Skvortsov Valentin. Non-absolute generalizations of the Lebesgue integral and Hake property

16⁰⁰ : 16³⁰ Ugulava Duglas, On the summability of Fourier series of almost periodic functions on locally compact Abelian groups

16³⁰ : 17⁰⁰ Deger Ugur, On Approximation by Cesaro Submethods in Generalized Lebesgue Spaces $L^{p(x)}$

17⁰⁰ : 17³⁰ Coffee break

RCA 2

Room 10

Chairman: Ugulava Duglas

17³⁰ : 18⁰⁰ Bayindir Hilal, Deger Ugur, Approximation by Cesaro Submethod in Generalized Holder Metric

18⁰⁰ : 18³⁰ Guliyeva Aida, Bilalov Bilal, Bases in Morrey-Lebesgue and Morrey-Hardy spaces

18³⁰ : 19⁰⁰ Sadigova Sabina, Gasanova Tamila, On Frames of Double and Unary Systems in Lebesgue Spaces

September 9, Tuesday

RCA 3

Chairman: Skvortsov Valentin

Room 10

15⁰⁰ : 15³⁰ **Oniani Giorgi**, On the convergence of double Fourier-Haar series by dilations of a set

15³⁰ : 16⁰⁰ **Chobanyan Sergey, Giorgobiani George, Tarieladze Vaja**, A version of the transference lemma

16⁰⁰ : 16³⁰ **Chubinidze Kakha, Oniani Giorgi**, Note On Singular Lebesgue--Stieltjes Measures

16³⁰ : 17⁰⁰ **Coffee break**

RCA 4

Chairman: Oniani Giorgi

Room 10

17⁰⁰ : 17³⁰ **Dovgoshey Oleksiy, Bilet Victoria, Kucukaslan Mehmet**. Minimality of Universal metric spaces

17³⁰ : 18⁰⁰ **Tutberidze Giorgi**, Absolutely convergence factors of Fourier series

September 11, Thursday

RCA 5

Chairman: Dzagnidze Omar

Room 10

15³⁰ : 16⁰⁰ **Dzagnidze Omar**, On term by term integration for double Fourier trigonometric series

16⁰⁰ : 16³⁰ **Tsivtsivadze Irma**, On absolutely convergence of double Fourier series for absolutely continuous function

16³⁰ : 17⁰⁰ **Karaca Bahriye, Celebi Okay**, Dirichlet boundary value problem in a polydisc

17⁰⁰ : 17³⁰ **Coffee break**

RCA 6	Chairman: Dzagnidze Omar
Room 10	
17 ³⁰ : 18 ⁰⁰	Harutyunyan Anahit , Toeplitz operators on weighted Besov spaces of holomorphic functions on the polydisk
18 ⁰⁰ : 18 ³⁰	Japaridze Erekle , About of Symmetric Higher Order Derivatives of Peano, Borel and Cesáro

September 12, Friday

RCA 7	Chairman: Najafzadeh Shahram
Room 10	
15 ³⁰ : 16 ⁰⁰	Najafzadeh Shahram , Application of Salagean operator on univalent functions with respect to K- symmetric points
16 ⁰⁰ : 16 ³⁰	Zivzivadze Lela , On the Approximation of Invers Functions of the Quasiconformal Mapping Functions and their Derivatives on the Circle of Close Domains
16 ³⁰ : 17 ⁰⁰	Mamedkhanov Jamal, Dadashova Irada , Rational approximation in $L_{1}(\Gamma)$

Section: Theoretical Physics / TP

September 8, Monday

TP 1	Chairman: Sushch Volodymyr
Room 11	
15 ³⁰ : 16 ⁰⁰	Chkhitunidze Marina, Khvedelidze Irina, Dzhondzoladze Nino , Assessment of the Wentzel-Kramers-Brillouin (WKB) Method Error by the Gratton Kinematic Model for the Earth's Magnetic boundary layer Task

- 16⁰⁰ : 16³⁰ **Surguladze Teimuraz**, Classification methods for obtaining viscoelastic constitutive relationship containing fractional derivatives
- 16³⁰ : 17⁰⁰ **Yildirim Kenan**
Open-Loop vibration control of a smart plate
- 17⁰⁰ : 17³⁰ **Coffee Break**
- TP 2**
Room 11
Chairman: Sushch Volodymyr
- 17³⁰ : 18⁰⁰ **Sushch Volodymyr**
On the chirality of a discrete Dirac-Kahler equation
- 18⁰⁰ : 18³⁰ **Rostomashvili Zurab**
Perturbation of hyperfine interaction's constant in discrete saturated Conditions
- 18³⁰ : 19⁰⁰ **Kvinikhidze Alexander**
Effect of $q\bar{q}$ pair annihilation in exotic systems

Section: Logic of Natural Languages and Computational Linguistics / LNL CL

September 8, Monday

- LNL CL 1**
Room 12
Chairman: Pkhakadze Konstantine
- 15³⁰ : 16⁰⁰ **Durglishvili Nino**. Intensional Interpretation of Syllogistic and its Arithmetization
- 16⁰⁰ : 16³⁰ **Pkhakadze Konstantine, Chichua George**. The Different Trial Versions of the Segregator System for the Georgian Spoken Texts into Phonemes, Syllables and Words
- 16³⁰ : 17⁰⁰ **Pkhakadze Konstantine, Chichua George, Chikvinidze Merab**. Georgian Spoken Support for Persons with Speech Disorder
- 17⁰⁰ : 17³⁰ **Coffee Break**

**LNL CL 2
Room 12**

Chairman: Pkhakadze Konstantine

17³⁰ : 18⁰⁰

Pkhakadze Konstantine, Chichua George, Chikvinidze Merab. The Inbuilt Trial System of the Georgian Speech Recognition and Voice to Voice Translator in the Georgian Self-Developing Intellectual Corpus

18⁰⁰ : 18³⁰

Pkhakadze Konstantine, Chichua George, Chikvinidze Merab, Maskharashvili Alexander, Beriasvili Inesa. A Trial Version of the Georgian Self-Developing Intellectual Corpus and the Aims of Construction of Such Type Web-Corpus

18³⁰ : 19⁰⁰

Pkhakadze Konstantine, Chichua George, Chikvinidze Merab, Maskharashvili Alexander, Beriasvili Inesa. The Inbuilt System of the Georgian Extension of the Google Translate In The Georgian Self-Developing Intellectual Corpus

September 9, Tuesday

United Session of the Sections of the “Logic of Natural Languages and Computational Linguistics” and “Applied Logic and Programming” Dedicated to the Memory of Shalva Pkhakadze

**ALP 2,
LNL CL 3
Room 4**

Chairmans: Rukhaia Khimuri and Pkhakadze Konstantine

15⁰⁰ : 15³⁰

Pkhakadze Konstantine. A Short Overview of Shalva Pkhakadze’s Scientific and Pedagogical Activities

15³⁰ : 16⁰⁰

Rukhaia Khimuri, Tibua Lali, Chankvetadze Gela. Some Properties of Unranked Quantifiers

16⁰⁰ : 16³⁰

Gasitashvili Zurab, Iashvili Giorgi. Some problems of classification of threats and sources of information

16 ³⁰ : 17 ⁰⁰	Coffee break
ALP 3, LNL CL 4 Room 4	Chairmans: Rukhaia Khimuri and Pkhakadze Konstantine
17 ⁰⁰ : 17 ³⁰	Pkhakadze Konstantine. Shalva Pkhakadze's Notation Theory and the Georgian Theory of the Genesis of the Different Natural Language Systems
17 ³⁰ : 18 ⁰⁰	Dundua Besik, Kutsia Temur. Constraint Logic Programming for Hedges and Contexts
18 ⁰⁰ : 18 ³⁰	Maskharashvili Alexander. The Contracting Symbols in Georgian and in Some other Languages

September 11, Thursday

LNL CL 5 Room 12	Chairman: Pkhakadze Konstantine
15 ³⁰ : 16 ⁰⁰	Pkhakadze Konstantine, Chichua George, Chikvinidze Merab, Maskharashvili Alexander, Beriasvili Inesa, Pkhakadze Nikoloz, Kurtskhalia Davit. The Overview of the Georgian Language Technology Systems Placed on the Web-Site of the Center for Georgian Language Technology
16 ⁰⁰ : 16 ³⁰	Pkhakadze Konstantine, Chichua George, Chikvinidze Merab, Maskharashvili Alexander, Beriasvili Inesa, Pkhakadze Nikoloz, Kurtskhalia Davit. The Logical Grammar of the Georgian Language as the Theoretical Background of the Georgian Intellectual Corpus
16 ³⁰ : 17 ⁰⁰	Pkhakadze Konstantine, Chikvinidze Merab, Maskharashvili Alexander, Beriasvili Inesa. The Inbuilt System of the Georgian-English-German Translator in the Georgian Self-Developing Intellectual Corpus

17⁰⁰ : 17³⁰ **Coffee Break**

LNL CL 6
Room 12 **Chairman: Pkhakadze Konstantine**

17³⁰ : 18⁰⁰ **Pkhakadze Konstantine, Chikvinidze Merab.** The Inbuilt Systems of the Georgian Self-Developing Grammatical and Orthographical Checker in the Georgian Self-Developing Intellectual Corpus

18⁰⁰ : 18³⁰ **Pkhakadze Konstantine, Chichua George, Chikvinidze Merab, Maskharashvili Alexander.** The Georgian Language in the Digital Age and the Technological Alphabet of The Georgian Language

List of participants with e-mails

Akhalaia Shota	Shiakhalai@yahoo.com
Akhbari Roghayeh	Zahra_akhbari@yahoo.com
Akhvlediani Gvantsa	Akhvledianigvanca@mail.ru
Aliev Akbar	aliyevagil@gmail.com
Aliyev Soltan	soltanaliyev@yahoo.com
Aliyev Yagub	yaliyev@qu.edu.az
Ananiashvili Natela	ia.ananiashvili@gmail.com
Arabidze Dimitri	didagi@gmail.com
Ashordia Malkhaz	ashord@rmi.ge
Aslanishvili Tristan	tristanaslanishvili@gmail.com
Avaliani Zebur	zebur.57@mail.ru
Azari Mahdieh	azari@kau.ac.ir
Babilua Petre	petre.babilua@tsu.ge
Baladze Vladimer	vbaladze@gmail.com
Bayindir Hilal	hilalbayindir2@gmail.com
Bayramov Sadi	baysadi@gmail.com
Beridze Anzor	anzorberidze@yahoo.com
Berikelashvili Givi	berikela@yahoo.com
Bezhuashvili Yuri	y.bezhuashvili@yandex.com
Bilalov Bilal	b_bilalov@mail.ru
Bilet Victoriya	biletvictoriya@mail.ru
Bilgin Tunay	tbilgin@yyu.edu.tr
Bitsadze Rusudan	Bitsadze.R@gmail.com
Bokelavadze Tengiz	bokel71@yahoo.com
Buchukuri Tengiz	t_buchukuri@yahoo.com
Bufetov Alexander	bufetov@mi.ras.ru
Celebi Okay	acelebi@yeditepe.edu.tr
Cengiz Nejmi	ncengiz@atauni.edu.tr
Cevik Ali	ali.cevik.tr@gmail.com
Chakhvadze Alexander	aleqsandre92@gmail.com
Chalauri Giga	giga.chalauri@gmail.com
Chankvetadze Gela	gelachan@hotmail.com
Chankvetadze Nugzar	slevin1012@gmail.com
Chilachava Temur	temo\$-Schilachava@yahoo.com
Chkhitunidze Marina	marina_chkhitunidze@yahoo.com
Chobanyan Sergey	chobanya@stt.msu.edu
Chubinidze Kakha	kaxachubi@gmail.com
Dalalyan Samvel	dalalyan@ysu.am
Davitashvili Teimuraz	tedavitashvili@gmail.com
Davitashvili Tinatin	t_davitashvili@hotmail.com
Deger Ugur	degpar@gmail.com
Dochviri Besarion	besarion.dochviri@tsu.ge

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Dostenko Sergey	Sergei204@ukr.net
Dovgoshey Oleksiy	aleksdov@mail.ru
Duduchava Roland	roldud@gmail.com
Dundua Besik	bdundua@gmail.com
Durglishvili Nino	nino_du@yahoo.com
Dvalishvili Pridon	pridon.dvalishvili@tsu.ge
Dzagnidze Omar	odzagni@rmi.ge
Dzhondzoladze Nino	nino.bej@gmail.com
Dzidziguri Tsiala	cialadzidziguri@rambler.ge
Ehsani Amir	a.ehsani@mhriau.ac.ir
Ekhvaia Goderdzi	goderdzi.ekhvaia@mail.ru
Gachechiladze roland	r.gachechiladze@yahoo.com
Gadjiev Tahir	tgadjiev@mail.az
Gagoshidze Mikheil	mishagagoshidze@gmail.com
Gasanova Tamila	q.tamilla@gmail.com
Geladze Giorgi	givi-geladze@rambler.ru
Ghanbari M.	ghanbari543@yahoo.com
Giorgashvili Levan	lgiorgashvili@gmail.com
Giorgobiani George	bachanabc@yahoo.com
Giunashvili Zakaria	Zgiunashvili@gmail.com
Glazyrina Polina	polina.glazyrina@urfu.ru
Glonti Omar	omglo@yahoo.com
Gogishvili Guram	guramgog@gmail.com
Gordeziani David	dgord37@hotmail.com
Gorgodze Nika	nika_gorgodze@yahoo.com
Guliyeva Aida	amea1984@gmail.com
Gunduz Cigdem	carasgunduz@gmail.com
Gursoy Osman	osmangursoy@maltepe.edu.tr
Harutyunyan Anahit	ahit@ysu.am
Iashvili Giorgi	gioiasha@gmail.com
Iashvili Nugzari	nugzar.iashvili@rambler.ru
Incesu Muhsin	m.incesu@alparslan.edu.tr
Iranmanesh Ali	iranmanesh@modares.ac.ir
Ivanidze Diana	dianaivanize@gmail.com
Ivanidze Marekh	marexi.ivanidze@gmail.com
Jaghmaidze Aslan	omar.jagmaidze@gmail.com
Jangveladze Temur	tjangv@yahoo.com
Jaoshvili Vakhtang	vakhtangi.jaoshvili@gmail.com
Japaridze Erekle	erekle.japaridze@atsu.edu.ge
Kadeishvili Tornike	tornike.kadeishvili@gmail.com
Kaledin Dmitry	kaledin@mi.ras.ru
Karaca Bahriye	bahriye.karaca@yeditepe.edu.tr
Karalashvili Liana	liana.qaralashvili@yahoo.com
Karseladze George	gkarseladze@gmail.com
Kekelia Nestan	nest.kek@mail.ru

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Kereselidze Nugzar	tvn@caucasus.net
Khaburdzania Razhden	Razhden.Khaburdzania@atsu.edu.ge
Kharaishvili Ketevan	xaraishvili@mail.ru
Kharibegashvili Sergo	kharibegashvili@yahoo.com
Khatiashvili nino	ninakhatia@gmail.com
Khvedelidze Irina	khvedelidze.i@gmail.com
Kiguradze Zurab	zkigur@yahoo.com
Kordzadze Ekaterine	e.kordzadze@gmail.com
Kratsashvili Maia	maiakratsashvili@gmail.com
Kucukaslan Mehmet	mkucukaslan@mersin.edu.tr
Kurtskhalia Davit	gllc.ge@gmail.com
Kutkhashvili Ketevan	kkutkhashvili@yahoo.com
Kutsia Temur	tkutsia@risc.uni-linz.ac.at
Kvaratskhelia Vakhtang	v_kvaratskhelia@yahoo.com
Kvinikhidze Sasha	Sasha_kvinkhidze@hotmail.com
Lominashvili Giorgi	giorgilominashvili1972@yahoo.com
Magrakvelidze Dali	d.magrakvelidze@gtu.ge
Makatsaria Giorgi	giorgi.makatsaria@gmail.com
Makharadze Dali	dali_makharadze@mail.ru
Mamedkhanov Jamal	jamalmamedkhanov@rambler.ru
Mamporia badri	badrimamporia@yahoo.com
Manelidze Gela	gelamanelidze@gmail.com
Marasi Hamidreza	marasi@bonabu.ac.ir
Maskharashvili Alexander	alexandermaskharashvili@gmail.com
Mchedlishvili Diana	diana.mtchedlishvili@gmail.com
Meladze Hamlet	h_meladze@hotmail.com
Menteshashvili Marine	marimen1963@gmail.com
Meskhi Alexander	meskhi@rmi.ge
Meskhia Rusudan	rusudan.meskhia@tsu.ge
Metreveli Davit	datometreli@hotmail.com
Midodashvili Bidzina	bidmid@hotmail.com
Miruashvili Maia	Makomiruashvili@gmail.com
Mizrak Ozgur	ozgurmizrak@gmail.com
Moradi Sirous	sirousmoradi@gmail.com
Moslehian Mohammad Sal	moslehian@member.ams.org
Movsisyan Yuri	yurimovsisyan@yahoo.com
Nadaraya Elizbar	elizbar.nadaraya@tsu.ge
Najafzadeh Shahram	najafzadeh1234@yahoo.ie
Odisharia Vladimer	vodisharia@yahoo.com
Odishelidze Nana	nana_georgiana@yahoo.com
Oniani Giorgi	oniani@atsu.edu.ge
Ozturk Taha Yasin	taha36100@hotmail.com
Papukashvili Archil	apapukashvili@rambler.ru
Patsatsia Mzevinar	mzevip54@mail.ru
Peradze Jemal	j_peradze@yahoo.com

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Pirumova Kristine	chr4mk@gmail.com
Pkhakadze Konstantine	gllc.ge@gmail.com
Purtukhia Omar	o.purtukhia@gmail.com
Rakviashvili Giorgi	giorgi.rakviashvili@iliauni.edu.ge
Ramishvili Ia	iaramis@yahoo.com
Rasulov Rafiq	rafiggrasulov@yahoo.com
Rostomashvili Zurab	zurabross@yahoo.com
Rukhaia Khimuri	khimuri.rukhaia@gmail.com
Sadigova Sabina	s_sadigova@mail.ru
Saks Romen	romen-saks@yandex.ru
Salimov Arif	asalimov@atauni.edu.tr
Samashvili Nino	n.samashvili@gmail.com
Sarajishvili Tsitsino	tsis55@yahoo.com
Sergeev Armen	sergeev@mi.ras.ru
Shargorodsky Eugene	eugene.shargorodsky@kcl.ac.uk
Sharikadze Meri	meri.sharikadze@tsu.ge
Shatashvili Samson	samson@maths.tcd.ie
Skhvitaridze Ketevan	ketiskhvitaridze@yahoo.com
Skvortsov Valentin	vaskvor2000@yahoo.com
Sokhadze Grigol	grigol.sokhadze@tsu.ge
Sokhadze Zaza	z.soxadze@gmail.com
Surguladze Teimuraz	temsurg@yahoo.com
Surmanidze Onise	Onise.Surmanidze@mail.ru
Sushch Volodymyr	volodymyr.sushch@tu.koszalin.pl
Svanadze Kosta	kostasvanadze@yahoo.com
Taheri Mohammad	taheri.mohamad96@yahoo.com
Takhtajan Leon A.	leontak@math.sunysb.edu
Tarieladze Vaja	vajatarieladze@yahoo.com
Tephnadze George	giorgitephnadze@gmail.com
Tibua Lali	lali.tibua@gmail.com
Topuridze Nino	topurnino@yahoo.com
Tsaava Medea	m.caava@yahoo.com
Tsiklauri Zviad	zviad_tsiklauri@yahoo.com
Tsinaridze Ruslan	rtsinaridze@yahoo.com
Tsivtsivadze Irma	irmatsiv@gmail.com
Tsutskiridze V.	btsutskiridze@yahoo.com
Tsutsunava Tamta	Tamta.wuwunava@mail.ru
Turmanidze Lela	turmanidzelela@gmail.com
Tutberidze Giorgi	giorgi.tutberidze257@ens.tsu.edu.ge
Ugulava Duglas	duglasugu@yahoo.com
Vakhania Nikoloz	nikovakhania@yahoo.com
Vashakidze Zurab	vashakidze@gmail.com
Vepkhvadze Teimuraz	t-vepkhvadze@hotmail.com
Yakar Ali	ayakarl@hotmail.com
Yasar Erol	eroly69@gmail.com

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Yarahmadi Zahra	z.yarahmadi@gmail.com
Yazar Murat Ibrahim	miy248@yahoo.com
Yildirim Cem Yalcin	yalciny@boun.edu.tr
Yildirim Furkan	furkanyildirim111@hotmail.com
Yildirim Kenan	k.yildirim@alparslan.edu.tr
Zivzivadze Lela	lelajaparidze21@gmail.com