

**CAUCASIAN MATHEMATICS
CONFERENCE**

CMC I

P R O G R A M

TBILISI, SEPTEMBER 5 and 6, 2014

ORGANIZERS

The first Caucasian Mathematics Conference (CMC I) is organized under the auspices of the European Mathematical Society and the cooperation of the Armenian, Azerbaijan, Georgian, Iranian, Russian and Turkish Mathematical Societies.

STEERING COMMITTEE

Carles Casacuberta (ex officio; Chair of the EMS Committee for European Solidarity), **Mohammed Ali Dehghan** (President of the Iranian Mathematical Society), **Roland Duduchava** (President of the Georgian Mathematical Union), **Tigran Harutyunyan** (President of the Armenian Mathematical Union), **Misir Jamayil oglu Mardanov** (Representative of the Azerbaijan Mathematical Union), **Marta Sanz-Sole** (ex officio; President of the European Mathematical Society), **Armen Sergeev** (Representative of the Moscow Mathematical Society and EMS), **Betül Tanbay** (President of the Turkish Mathematical Society).

LOCAL ORGANIZING COMMITTEE

Buchukuri Tengiz, Davitashvili Tinatin (Scientific Secretary), Duduchava Roland (Chairman), Eliashvili Merab, Natroshvili David (Vice Chairman), Sigua Levan.

CONFERENCE SECTIONS

- Algebra and Model Theory
Chairmans Tuna Altinel and Ayşe Berkman
- Algebra and Topology
Chairman Tornike Qadeishvili
- Analysis
Chairman Vakhtang Kokilashvili
- Differential Equations and Applications
Chairman David Kapanadze
- Numerical Analysis and Mathematical Modeling
Chairman Temur Jangeladze

- Probability and Statistics
Chairman Vaja Tarieladze

PLENARY SPEAKERS

Mohammad Sal Moslehian, Ferdowsi University of Mashhad, Iran,
Garib N. Murshudov, MRC , Cambridge,
Dmitri Orlov, Steklov Institute, Moscow, Russia,
Samson Shatashvili, Trinity College, Dublin, Ireland,
Leon Takhtajan, University of Stony Brook, USA,
Cem Yalçın Yildirim, Bogaziçi University, Istanbul, Turkey.

YOUNG INVITED SPEAKERS

Artur Kobelyan, Yerevan State University, Armenia
Vardan Tepoyan, Institute of Mathematics, National Academy of
Sciences of Armenia
Rovshan Bandaliyev, Institute of Mathematics and Mechanics of NAS
of Azerbaijan
Ali Huseynli, Institute of Mathematics and Mechanics of NAS of
Azerbaijan
George Tephnadze, Tbilisi State University & Lulea University of
Technology, Georgia
MedeaTsaava, A.Razmadze Mathematical institute, Tbilisi State
University, Georgia
Majid Soleimani-damaneh, University of Tehran, Iran
Alireza Amini Harandi, Sharkord University, Iran
Sergey Gorchinskiy, Steklov Mathematical Institute, Russia
Iulia Beloshapka, Lomonosov Moscow State University, Russia
Kazım Büyükboduk, Koç University, Turkey
Özgün Ünlü, Bilkent University, Turkey

SCHEDULE OF THE CONFERENCE

4 September, Thursday

Arrival day to Tbilisi

15⁰⁰-19⁰⁰ - Registration in National Academy of Sciences

5 September, Friday

8³⁰ : 9³⁰ Registration

9³⁰ : 10⁰⁰ Opening of the conference

Room 1 Chairman: Duduchava Roland

10⁰⁰ : 10⁵⁰ Shatashvili Samson, Supersymmetric gauge theories and the quantisation of integrable systems
supersymmetric gauge theories and the quantisation of integrable systems

10⁵⁰ : 11²⁰ Coffee break

Room 1 Chairwoman: Tanbay Betul

11²⁰ : 12¹⁰ Yildirim Cem Yalçın, Small gaps between primes the gpy method and recent advancements over it

12²⁰ : 13¹⁰ Murshudov Garib N, Some application of mathematics to structural biology

13¹⁰ : 15⁰⁰ Dinner

15⁰⁰ : 17⁰⁰ Parallel Sessions AMT 1, AMT 3,
AT 1, AT 3, AT 5, AT 7,
AN 1, AN 3, AN 5,
DEA 1, DEA 3, DEA 5,
NAM.1, PS 1

17⁰⁰ : 17³⁰ Coffee break

17³⁰ : 19⁰⁰ Parallel Sessions AMT 2, AMT 4,
AT 2, AT 4, AT 6, AT 8,
AN 2, AN 4, AN 6,
DEA 2, DEA 4, DEA 6, NAM 2, PS 2

20⁰⁰ : 23⁰⁰ Conference Dinner

6 September, Saturday

Room 1 Chairman: Sergeev Armen

8³⁰ : 9³⁰ Registration

9³⁰ : 10²⁰ Takhtajan Leon A., On Bott-Chern and Chern-Simons characteristic forms

10³⁰ : 11²⁰ Orlov Dmitri, Categories in geometry and physics: mirror symmetry, d-branes and Landau-Ginzburg models

11²⁰ : 11⁵⁰ Coffee break

Room 1 Chairman: Harutyunyan Tigran

11⁵⁰ : 12⁴⁰ Moslehian Mohammad Sal, Recent developments in operator inequalities

12⁴⁰ : 15⁰⁰ Dinner

**15⁰⁰ : 17⁰⁰ Parallel Sessions AMT 5,
AT 9, AT 11, AT13,
AN 7, AN 9, AN 11,
DEA 7, DEA 9, DEA 11,
NAM 3, NAM 5, PS 3**

17⁰⁰ : 17³⁰ Coffee break

**17³⁰ : 19³⁰ Parallel Sessions AT 10, AT 12, AT 14,
AN 8, AN 10,
DEA 8, DEA 10,
NAM 4, PS 4**

Section: Algebra and Model Theory /AMT

September 5, Friday

**AMT 1
Room 1.1 Chairwoman: Berkman Ayşe**

$15^{00} : 15^{30}$	Ahmadidelir Karim. On the characterization of finite Moufang loops by their non-commuting graph
$15^{30} : 16^{00}$	Kemoklidze Tariel. On the full transitivity of the cotorsion hull of a separable p-group
$16^{00} : 16^{30}$	Kuzucuoğlu Mahmut. Automorphisms of direct limits of symmetric groups
$16^{30} : 17^{00}$	Pakravesht Yaghub, İranmesh A. Normal edge-transitive Cayley graphs on non-abelian groups of order $4p^2$, where p is a prime number
$17^{00} : 17^{30}$	Coffee break
AMT 2 Room 1.1	Chairwoman: Berkman Ayşe
$17^{30} : 18^{00}$	Hanoymak Turgut. Key exchange protocols over group rings
$18^{00} : 18^{30}$	Aydın Neset, Erdoğan Ali, Makharadze Shota. On some properties of complete semigroups of binary relations defined by semilattices of the class $\text{sum}_2(X, 10)$
AMT 3 Room 1.2	Chairman: Altinel Tuna
$15^{00} : 15^{30}$	Pierce David. Compactness
$15^{30} : 16^{00}$	Kowalski Piotr. Recovering a field from a one-dimensional structure
$16^{00} : 16^{30}$	İkeda İlhan. On the local epsilon-factors of Weil representations
$16^{30} : 17^{00}$	Hosseini Arezoo. Relation Between Cohomology of Topological Local Groups and Reduced Cohomology Topological Group
$17^{00} : 17^{30}$	Coffee break

- AMT 4
Room 1.2
Chairman: Altinel Tuna
- 17³⁰ : 18⁰⁰ Devyatov Rostislav. Equivariant infinitesimal deformations of algebraic threefolds with an action of an algebraic torus of complexity 1
- 18⁰⁰ : 18³⁰ Beyarslan Ö. Groups appearing in theories of pseudo-finite fields
- 18³⁰ : 19⁰⁰ Laohakosol Vichian, Komatsu Takao, Sripayap Angkana. Values of Cantor-like analytic functions at rational points

September 6, Saturday

- AMT 5
Room 1
Chairman: Altinel Tuna
- 15⁰⁰ : 15³⁰ Momtahan Ehsan. On some categorical aspects of zero-divisor graphs
- 15³⁰ : 16⁰⁰ Shamsi Y. M. A positive cone in p-operator tensor product of Herz algebras
- 16⁰⁰ : 16³⁰ Pinthira Tangsupphathawat. Discriminative properties of generalized Möbius functions
- 16³⁰ : 17⁰⁰ Djahangiri M. Approximating of domination number via relaxation techniques
- 17⁰⁰ : 17³⁰ Coffee break

Section: Algebra and Topology / AT

September 5, Friday

- AT 1, Alg
Room 2.1
Chairman: Dalalyan Samuel
- 15⁰⁰ : 15³⁰ Büyükboduk Kazim (Young Invited Speaker). The

	Birch and Swinnerton-Dyer conjecture: p-adic vs complex
15 ³⁰ : 16 ⁰⁰	Fialowski Alice.
16 ⁰⁰ : 16 ³⁰	Fatemah Ayatollah Zadeh Shirazi. On induced hyperspace topological transformation semigroups
16 ³⁰ : 17 ⁰⁰	Kadeishvili Tornike. A(∞)-algebra structure in homology and its applications
17 ⁰⁰ : 17 ³⁰	Coffee break
AT 2, Alg Room 2.1	Chairman: Dalalyan Samuel
17 ³⁰ : 18 ⁰⁰	Cangul Ismail. groups of some discrete groups and some useful methods
18 ⁰⁰ : 18 ³⁰	Dalalyan Samuel. An algorithm for determining the irreducible polynomials over finite fields
18 ³⁰ : 19 ⁰⁰	Dalalyan Samuel. Hypergroups over the group and applications
19 ⁰⁰ : 19 ³⁰	Motlaghian S. M., Armandnejad Ali. Hadamard majorization and its linear preservers on M_n
AT 3, Top Room 2.2	Chairman: Baladze Vladimer
15 ⁰⁰ : 15 ³⁰	Beloshapka Iuliya (Young Invited Speaker) . Twistor approach for harmonic 2-spheres in a loop space
15 ³⁰ : 16 ⁰⁰	Baladze Vladimer. The (co)shape and (co)homological properties of continuous maps
16 ⁰⁰ : 16 ³⁰	Neda Ebrahimi, Jamshidi Mina. Homomorphism on local top spaces
16 ³⁰ : 17 ⁰⁰	Tsinaridze Ruslan. On equivariant fiber shape theory

- 17⁰⁰ : 17³⁰ **Coffee break**
- AT 4, Top
Room 2.2** **Chairman: Baladze Vladimer**
- 17³⁰ : 18⁰⁰ **Turmanidze Lela.** On Cech's type continuous functors
- 18⁰⁰ : 18³⁰ **Salimov Arif.**
- 18³⁰ : 19⁰⁰ **Aramyan Rafik.** A representation for convex bodies
-
- AT 5, Graphs
Room 2.3** **Chairman: Alikhani Saeid**
- 15⁰⁰ : 15³⁰ **Yarahmadi Zahra.** Some results of one-alpha descriptor of graphs
- 15³⁰ : 16⁰⁰ **Alikhani Saeid.** Counting the number of some kind of dominating sets of graphs
- 16⁰⁰ : 16³⁰ **Mahdieh Azari.** Various versions of Zagreb indices under some local graph operators
- 16³⁰ : 17⁰⁰ **Loghman Amir.** On The Chromatic Number Of Replacement Product Graphs
- 17⁰⁰ : 17³⁰ **Coffee break**
- AT 6, Graphs
Room 2.3** **Chairman: Saeid Alikhani**
- 17³⁰ : 18⁰⁰ **Salehian Matykolaei Behzad.** Structures of Diophantine Graphs
- 18⁰⁰ : 18³⁰ **Falahati Nezhad Farzaneh.** Lower bounds on the multiplicative Zagreb indices of graph operations
-
- AT 7, Geo
Room 2.4** **Chairman: Kaledin Dmitry**
- 15⁰⁰ : 15³⁰ **Kaledin Dmitry.** Hochschild-Witt homology and

- syntomic K-theory
- 15³⁰ : 16⁰⁰ **Yusuf Abu Muhanna.** Hyperbolic metric and bohr's phenomenon
- 16⁰⁰ : 16³⁰ **Jamshidi Mina, Neda Ebrahimi.** A new causal ladder in general relativity
- 16³⁰ : 17⁰⁰ **Pashaie Firooz.** On r-stability index of spacelike hypersurfaces in the de Sitter space
- 17⁰⁰ : 17³⁰ **Coffee break**
- AT 8, Geo
Room 2.4** **Chairman: Kaledin Dmitry**
- 17³⁰ : 18⁰⁰ **Bajravani Ali.** A Prym-Torelli Theorem for General Prym-Canonical Curves of Genus $g = 7$
- 18⁰⁰ : 18³⁰ **Hajibadali Ali.** Three-Dimensional Homogeneous Contact Non-Sasakian Lorentz Manifold
- 18³⁰ : 19⁰⁰ **Heidari Nikrooz.** Decomposition of Euclidean nearly-kahler submanifolds
- 19⁰⁰ : 19³⁰ **Mahdi Miri.** The title will be announced later

September 6, Saturday

- AT 9, Alg
Room 2.1** **Chairman: Dalalyan Samuel**
- 15⁰⁰ : 15³⁰ **Gorchinskiy Sergey (Young Invited Speaker).** Loday symbol, Countou-Carrere symbol, and reciprocity
- 15³⁰ : 16⁰⁰ **Hadi Hooshmand Mohammad.** Class United Grouplikes
- 16⁰⁰ : 16³⁰ **Solary Maryam Shams.** Sign of Eigenvalues for Toeplitz Matrices
- 16³⁰ : 17⁰⁰ **Tepoyan Vardan (Young Invited Speaker).** Isometric representations of Abelian semigroups

- 17⁰⁰ : 17³⁰ **Coffee break**
- AT 10, Alg
Room 2.1** **Chairman: Dalalyan Samuel**
- 17³⁰ : 18⁰⁰ **Rashid Zaare-Nahandi.** Minimal free resolution of monomial ideals
- 18⁰⁰ : 18³⁰ **Bokelavadze Tengiz, Amaglobeli Mikheil.** Some Results of the Theory of Exponential R-Groups
- 18³⁰ : 19⁰⁰ **Armandnejad Ali,** g-tridiagonal majorization and circulant majorization on $M_n; m$
- 19⁰⁰ : 19³⁰ **Khanehgir Mahnaz, Hasanvand F.** Dual multi 2-normed space
- AT 11, Apps
Room 2.2** **Chairman: Karacay Timur**
- 15⁰⁰ : 15³⁰ **Amikishiyev Vagif, Mehdiyev.T, Shabiyev J.,
Murshudov G.N.** A Search for a Fragment Space: Organization and Use of Prior Structural Knowledge
- 15³⁰ : 16⁰⁰ **Bastani Mehdi, Nasser Aghazadeh.** On the generalized Hermitian and skew-Hermitian splitting iterative method for image restoration
- 16⁰⁰ : 16³⁰ **Vildan Çetkin, Halis Aygün .** On L-soft merotopies
- 16³⁰ : 17⁰⁰ **Fakharzadeh A.J., Alimorad H.D. ,** A theoretical measure technique for determining 3-D symmetric optimal shapes with a given center of mass
- 17⁰⁰ : 17³⁰ **Coffee break**
- AT 12, Apps
Room 2.2** **Chairman: Karacay Timur**
- 17³⁰ : 18⁰⁰ **Karacay Timur.** Introducing Methods Of Analysis Into Fuzzy Systems
- 18⁰⁰ : 18³⁰ **Taherkhani Bahman.** Various chaotic generalized shift

- dynamical systems
- 18³⁰ : 19⁰⁰ **Jamshidi Mina, Neda Ebrahimi.** Action of fuzzy top spaces on fuzzy manifolds
- 19⁰⁰ : 19³⁰ **Sirous Moradi.** Introducing Methods Of Analysis Into Fuzzy Systems
- AT 13, Geo Room 2.3**
- 15⁰⁰ : 15³⁰ **Chairman: Movsisyan Yuri**
- 15³⁰ : 16⁰⁰ **Mohammad Reza Oboudi.** On the location of roots of domination polynomials
- 15³⁰ : 16⁰⁰ **Ambartzumian Rouben.** Lifting Hilbert's fourth problem to three dimensions
- 16⁰⁰ : 16³⁰ **Movsisyan Yuri.** Free algebras with hyperidentities of lattice varieties
- 16³⁰ : 17⁰⁰ **Mohammad Ilmakchi.** Hypersurfaces of Kenmotsu space form
- 17⁰⁰ : 17³⁰ **Coffee break**
- AT 14 Room 2.3**
- 17³⁰ : 18⁰⁰ **AT Chairman: Gogishvili Guram**
- 17³⁰ : 18⁰⁰ **Alireza Amini Harandi (Young Invited Speaker).** Fixed Point theory for generalized nonexpansive mappings
- 18⁰⁰ : 18³⁰ **Majid Derafshpour.** Some Fixed Point Results in Boolean Metric Spaces
- 18³⁰ : 19⁰⁰ **Gogishvili Guram.** New results On Estimation Of Singular Series Corresponding To Positive Quaternary Quadratic Forms

19⁰⁰ : 19³⁰ Poliektova-Nikoladze Zinaida. On The Distribution of Prime Numbers

Section: Analysis / AN

September 5, Friday

AN 1

Room 3.1

Chairman: Gol'dshtein Vladimir

15⁰⁰ : 15³⁰

Kobelyan Arthur (Young Invited Speaker). Some property of Fourier series with respect by orthogonal systems

15³⁰ : 16⁰⁰

Burenkov Victor, Gol'dshtein Vladimir, Ukhlov Alexander, Spectral Stability of the Dirichlet-Laplace Operator in Plane Domains

16⁰⁰ : 16³⁰

Kokilashvili Vakhtang, Boundedness Criteria for Harmonic Analysis Basic Integral Operators in Weighted Iwaniec-Sbordone Spaces

16³⁰ : 17⁰⁰

Mesghi Alexander, Two-Weight Criteria for Riesz Potentials on Cones of Radially Decreasing Functions

17⁰⁰ : 17³⁰

Coffee break

AN 2

Room 3.1

Chairman: Ephremidze Lasha

17³⁰ : 18⁰⁰

Beyaz Basak Koca, Invariant Subspaces of the Hardy Space Over the Polydisc

18⁰⁰ : 18³⁰

Majid Soleimani-damaneh (Young Invited Speaker). On compromise solutions and scalarization in multiobjective optimization

18³⁰ : 19⁰⁰

Ephremidze Lasha, Salia Nika, Some Computational Aspects of Novel Matrix Spectral Factorization

Algorithm

**AN 3
Room 3.2**

Chairman: Gachpazan Mortaza

15⁰⁰ : 15³⁰

Gachpazan Mortaza, Erfanian Madjid, A New Sequential Approach for Solving the Integro-Differential Equation Via Haar Wavelet Bases

15³⁰ : 16⁰⁰

Bandaliyev Rovshan (Young Invited Speaker). On a Two-Weighted Inequality for Certain Sublinear Operator in Weighted Musielak-Orlicz Spaces

16⁰⁰ : 16³⁰

Sirous Moradi, Generalized Weakly Contraction and its Applications

16³⁰ : 17⁰⁰

Sirous Moradi, Fixed Point Theory for Cyclic Mappings

17⁰⁰ : 17³⁰

Coffee break

**AN 4
Room 3.2**

Chairman: Abolhasani Ali

17³⁰ : 18⁰⁰

Tephnadze George (Young Invited Speaker). On the Cesàro Means of Walsh-Fourier Series

18⁰⁰ : 18³⁰

Amyari Maryam, Generalized Fredholm operator in locally m-convex H* algebras

18³⁰ : 19⁰⁰

Abolhasani Ali, Two different approaches in prediction of infinite variance ARMA(1,1)

**AN 5
Room 3.3**

Chairman: Bufetov Alexander

15⁰⁰ : 15³⁰

Bufetov Alexander, Infinite determinantal measures

15³⁰ : 16⁰⁰

Bilalov Bilal, Sadigova Sabina, Frame properties of the

	part of a system of exponents with degenerate coefficient in Hardy classes
16 ⁰⁰ : 16 ³⁰	Ebadian Ali , ON T-Neighborhood on univalent functions
16 ³⁰ : 17 ⁰⁰	Fazli hady Rahmani , Modeling of a fractional-order economic system
17 ⁰⁰ : 17 ³⁰	Coffee break
AN 6 Room 3.3	Chairman: Amyari Maryam
17 ³⁰ : 18 ⁰⁰	Gasanova Tamilla, Sadigova Sabina , On Frames of Double and Unary Systems in Lebesgue Spaces
18 ⁰⁰ : 18 ³⁰	Gevorgyan Levon , On self-commutators of operators
18 ³⁰ : 19 ⁰⁰	Guliyeva Aida, <u>Bilalov Bilal</u> , Bases in Morrey-Lebesgue and Morrey-Hardy spaces

September 6, Saturday

AN 7 Room 3.1	Chairman: Guseynov Yevgeniy
15 ⁰⁰ : 15 ³⁰	Ozgun Unlu (Young Invited Speaker) . Free Group Actions on Products of Spheres
15 ³⁰ : 16 ⁰⁰	Guseynov Yevgeniy , Integration Over Open Sets Boundary
16 ⁰⁰ : 16 ³⁰	Paatashvili Vakhtang , The Riemann-Hilbert Problem in Smirnov Class with a Variable Exponent and an Arbitrary Power Weight
16 ³⁰ : 17 ⁰⁰	Ghorbanalizadeh Arash , Approximation in Banach Space by Linear Positive Operators
17 ⁰⁰ : 17 ³⁰	Coffee break
AN 8	Chairman: Meskhi Alexander

Room 3.1

17³⁰ : 18⁰⁰ **Feysal Hassani**, Triangular Operational Matrix Method for Solving the Fractional Order Differential Equation

18⁰⁰ : 18³⁰ **Tetunashvili Shakro, Tetunashvili Tengiz**, On New Summability Methods with a Variable Order

18³⁰ : 19⁰⁰ **Tetunashvili Shakro, Tetunashvili Tengiz**, Uniqueness Theorems for Rademacher Series

19⁰⁰ : 19³⁰ **Danelia Ana, Kopaliani Tengiz, Gogatishvili Amiran**, Local Hardy-Littlewood Maximal Operator in Variable Lebesgue Spaces

AN 9

Room 3.2

Chairman: Harutyunyan Tigran

15⁰⁰ : 15³⁰ **Harutyunyan Tigran**, The Direct and Inverse problems for Sturm-Liouville and Dirac Operators

15³⁰ : 16⁰⁰ **Kadhavoor Karthikeyan**, Certain Classes Of Meromorphic Functions With Respect To (j, λ, k) Symmetric Points

16⁰⁰ : 16³⁰ **Khanehgir Mahnaz, Khibary M. Moradian**, b - H^* - algebras

16³⁰ : 17⁰⁰ **Najafzadeh Shahram**, Higher order derivative on meromorphic functions in terms of subordination

17⁰⁰ : 17³⁰ **Coffee break**

AN 10

Room 3.2

Chairman: Tanbay Betul

17³⁰ : 18⁰⁰ **Roojin Jamal, Alikhani Akram**, Comparison of operator Jensen functionals of two convex functions

- 18⁰⁰ : 18³⁰ **Sadik Nazim**, Canonical functions of admissible measures in half-plane
- 18³⁰ : 19⁰⁰ **Zeid Samaneh Soradi**, Ali Vahidian Kamyad, Generalized High Order Derivatives of Nonsmooth Functions

AN 11
Room 3.3

Chairman: Masoumeh Zeinali

- 15⁰⁰ : 15³⁰ **Şeyda Sezgek, Ilhan Dağadur**, $C_{\{\lambda\}}$ -rate sequence space defined by a modulus function
- 15³⁰ : 16⁰⁰ **Masoumeh Zeinali**, Numerical solution of fuzzy nonlinear Fredholm integral equation
- 16⁰⁰ : 16³⁰ **Mehmet Giyas Sakar**, Numerical Solution of Reaction-Diffusion Equations in the Reproducing Kernel Spaces
- 16³⁰ : 17⁰⁰
- 17⁰⁰ : 17³⁰ **Coffee break**

Section: Differential Equations and Applications / DEA

September 5, Friday

DEA 1
Room 4.1

Chairman: Kapanadze David.

- 15⁰⁰ : 15³⁰ **Huseynli Ali**. (Young Invited Speaker). On basis properties of root functions of a nonselfadjoint boundary value problem
- 15³⁰ : 16⁰⁰ **Tsaava Medea**. (Young Invited Speaker), Duduchava

- Roland, Tsutsunava Tamta, Mixed Boundary Value Problem on Hypersurfaces
- Mohammad Jahanshahi, Mojtaba Darabadi. Existence and uniqueness of solution of a non-self-adjoint initial-boundary value problem for partial differential equation with non-local boundary conditions
- 16⁰⁰ : 16³⁰
- Polat Necat., Dündar Nurhan, Taşkesen Hatice, Pişkin Erhan. Existence of Solutions to Cauchy Problem for Boussinesq Type Equations
- 16³⁰ : 17⁰⁰
- 17⁰⁰ : 17³⁰ **Coffee break**
- DEA 2**
Room 4.1
- Chairman: Natroshvili David.**
- Gadjiev Tahir, Aliev Soltan, Rasulov Rafiq. Blow-up Solutions Some Classes of the Nonlinear Parabolic Equations
- 17³⁰ : 18⁰⁰
- Shavlakadze Nugzar**. The boundary value contact problems of electroelasticity for piezo-elastic half space with cut or elastic inclusion
- 18⁰⁰ : 18³⁰
- Mostolizadeh R**, **Afsharnezhad Z**, **. Shamsara E**. Stability and Hopf bifurcation analysis of a discontinuous HTLV-1 model
- 18³⁰ : 19⁰⁰
- DEA 3**
Room 4.2
- Chairman: Pişkin Erhan.**
- Chkadua Otar**, **Natroshvili David**. Localized Boundary-Domain Integral Equations Approach for Problems of the Theory of Piezo-Elasticity for Inhomogeneous Solids
- 15⁰⁰ : 15³⁰
- Mamedov K. R**, **Akcay Ozge**. Necessary and Sufficient Conditions for the Solvability of Inverse Problem for a Class of Dirac Operators
- 15³⁰ : 16⁰⁰

- 16⁰⁰ : 16³⁰** Aliev Akbar. Global existence, asymptotic behavior and blow-up of solutions to Cauchy problem of the system of Klein-Gordon equations with damping terms
- 16³⁰ : 17⁰⁰** **Mardanov M. D., Mansimov K. B.**. On a Problem of Optimal Control Described by a System of Hyperbolic Integro-Differential Equations
- 17⁰⁰ : 17³⁰** **Coffee break**
- DEA 4
Room 4.2** **Chairman: Mardanov M. D.**
- 17³⁰ : 18⁰⁰** Ahmadkhanlu Asghar, Mohammad Jahanshahi, Existence Results for Non-Linear Fractional Integro-Differential Equation with Non-Local Boundary Conditions
- 18⁰⁰ : 18³⁰** Bitsadze Rusudan, Menteshashvili Marine. On one mixed characteristic problem
- 18³⁰ : 19⁰⁰** Israilov S. Overridden boundary value problems for ODE continuous solutions
- DEA 5
Room 4.3** **Chairman: Sergeev Armen.**
- 15⁰⁰ : 15³⁰** Uludag Fatih., Sakar Giyas., Numerical Solution of Euler-Tricomi Equation in the Reproducing Kernel Hilbert Spaces
- 15³⁰ : 16⁰⁰** Zakradze Mamuli, Kublashvili Murman, Sanikidze Zaza, Koblishvili Nana. On approximate solution some Dirichlet generalized problems for cylindrical shells of revolution
- 16⁰⁰ : 16³⁰** **Aliyev Yagub.** Sturm-Liouville problems with eigenparameter dependent boundary conditions
- 16³⁰ : 17⁰⁰** Alizadeh A., Marasi Hamidreza.. Numerical Solution

of the Interrelated Differential Equation of Motion in Phonon Engineering

17⁰⁰ : 17³⁰

Coffee break

DEA 6

Room 4.3

Chairman: Chkadua Otar.

17³⁰ : 18⁰⁰

Dündar Nurhan, Polat Necat. Mathematical Behavior of a Modified Two-Component Shallow Water Equations

18⁰⁰ : 18³⁰

Yildirim Kenan. Optimal vibration control of a smart beam with time delay

18³⁰ : 19⁰⁰

Sagitov A. Overridden boundary value problems for ODE with discontinuous solutions

September 6, Saturday

DEA 7

Room 4.1

Chairman: Harutunjan T.

15⁰⁰ : 15³⁰

Duduchava Roland, Mellin Convolution Equations in Bessel Potential Spaces

15³⁰ : 16⁰⁰

Mohammad Jahanshahi, Aliev Nihan. Boundary value problems for real order differential equations

16⁰⁰ : 16³⁰

Castro Luis, Kapanadze David. Crack Impedance-Dirichlet Boundary Value Problems of Diffraction in a Half-Plane

16³⁰ : 17⁰⁰

Gadjiev Tahir. , Kerimova M. N., Gasanova G. Sh. The solutions degenerate nonlinear elliptic-parabolic equations

17⁰⁰ : 17³⁰

Coffee break

DEA 8

Room 4.1

Chairman: Dehghan Mohammed Ali.

17³⁰ : 18⁰⁰

Mohammadpouri Akham, Pashaie Firooz. Generalized Biharmonic Hypersurfaces

18 ⁰⁰ : 18 ³⁰	Gadjiev Tahir, <u>Sadykhova Nigar</u>. Removable Singularities of Solutions of Degenerate Nonlinear Elliptic Equations
18 ³⁰ : 19 ⁰⁰	<u>Odishelidze Nana, Criado-Aldeanueva Francisko, Criado Francisco</u>. A Mixed Problem of Plane Elasticity Theory for Multi-Connected Domain with Partially Unknown Boundary
DEA 9 Room 4.2	Chairman: Polat Necat.
15 ⁰⁰ : 15 ³⁰	<u>Pişkin Erhan</u>. Existence, Asymptotic Behavior and Blow Up of Solutions for the Timoshenko Equation
15 ³⁰ : 16 ⁰⁰	<u>Saini Anju, Parida M., Katiyar V. K.</u>, Mathematical Modeling of Biofilter used for Air flow through Lung Tissues
16 ⁰⁰ : 16 ³⁰	Roomi Vahid. Oscillation Theorems for Second-Order Nonlinear Differential Equations of Generalized Euler Type
16 ³⁰ : 17 ⁰⁰	<u>Akhalaia Gia, Manjavidze Nino</u>. On boundary value problems of the theory of generalized analytic vectors
17 ⁰⁰ : 17 ³⁰	Coffee break
DEA 10 Room 4.2	Chairman: Roomi Vahid.
17 ³⁰ : 18 ⁰⁰	<u>Taşkesen Hatice, Polat Necat</u>. Existence of Global Solutions of an Initial-Boundary Value Problem for a Nonlinear Timoshenko Equation
18 ⁰⁰ : 18 ³⁰	Mardanov M. D, Mansimov K. B. Necessary Conditions for Optimality of First and Second Order in a Problem of Optimal Control by Integro-Differential Equations Under Functional Constraints

18³⁰ : 19⁰⁰ Aghazadeh Nasser. Solving Volterra integro-differential equations by using an expansion method

DEA 11
Room 4.3

Chairman: Sagitov A.

15⁰⁰ : 15³⁰ **Marasi Hamidreza..** A modification of differential transform method for solving system of fractional partial differential equations

15³⁰ : 16⁰⁰ Atani Y. G., Aghazadeh Nasser. Edge detection based on wavelet and direction of gradient

16⁰⁰ : 16³⁰ **Saadatmandi Abbas.** An operational approach for solving fractional-order integro-differential equations

16³⁰ : 17⁰⁰ **Irاندoust-Pakchin S.** Development of fractional differential equation on variable coefficients and its applications on PDE

17⁰⁰ : 17³⁰ **Coffee break**

**Section: Numerical Analysis and Mathematical Modeling /
NAM**

September 5, Friday

NAM 1
Room 5.1

Chairman: Jangveladze Temur

15⁰⁰ : 15³⁰ **Jangveladze Temur, Kiguradze Zurab.** Semi-Discrete Scheme for One Averaged System of Nonlinear Integro-Differential Equations

15³⁰ : 16⁰⁰ **Chilachava Temur.** Nonlinear Mathematical Model of Bilateral Assimilation Taking into Account Demographic Factor

16⁰⁰ : 16³⁰ **Kereselidze Nugzar.** About Existence of the Solution of the Problem of the First and Second Type of Ratios

Information Technologies of the Parties in the
Mathematical Model of Information Warfare

16³⁰ : 17⁰⁰ Tsiklauri Zviad, Peradze Jemal. On the Convergence
of an Iteration Method for a Nonlinear Static Beam
Equation

17⁰⁰ : 17³⁰ **Coffee break**

NAM 2

Room 5.1

Chairman: Kiguradze Zurab

17³⁰ : 18⁰⁰ Akhmedova D. B., Alieva S. T., Mansimov K. B.. On a
Problem of Optimal Control Described by a
Difference Analogue of Barbashin Type Integro-
Differential Equation

18⁰⁰ : 18³⁰ Nuriyeva Fidar. A Multicenter and Bidirectional
Nearest Neighbour Algorithm for Traveling Salesman
Problem

18³⁰ : 19⁰⁰ Saini Anju, Parida M., Katiyar V. K.. Mathematical
Modeling of Biofilter Used for Air Flow Through Lung
Tissues

September 6, Saturday

NAM 3

Room 5.2

Chairman: Chilachava Temur

15⁰⁰ : 15³⁰ Nuriyeva Fidar, Tezel B. T., Nasiboglu E. A
Mathematical Model of the Multicriteria Limited Bin
Packing Problem with Fuzzy Qualities

15³⁰ : 16⁰⁰ Esmaeili Maryam, Tavakoli Ali. Construction of
Multiple Knot *B*-Spline Wavelet with Ideal Knots

16⁰⁰ : 16³⁰ Ghanbari M., Mojdeh D.A., Ramezani M. Algorithm
for Maximum Independent Set in Wireless Network
Graphs

16³⁰ : 17⁰⁰ Ghanbari M., Mojdeh D.A., Ramezani M. A New
Approximation Algorithm for Minimum Connected

	Dominating Set in Wireless Sensor Networks
17 ⁰⁰ : 17 ³⁰	Coffee break
NAM 4 Room 5.2	Chairman: Kiguradze Zurab
17 ³⁰ : 18 ⁰⁰	Jafarzadeh Yousef. Best Solution of Fuzzy Nonlinear Equation
18 ⁰⁰ : 18 ³⁰	Jafarzadeh Yousef. The Relative Error Bounds of Fuzzy Linear Systems
18 ³⁰ : 19 ⁰⁰	Jafarzadeh Yousef, Keramati Bagher. Newton's Method for Finding Best Trapezoidal Solution of Fuzzy Nonlinear Equations
19 ⁰⁰ : 19 ³⁰	Fakharzadeh A.J., Alimorad H.D., A Theoretical Measure Technique for Determining 3-D Symmetric Optimal Shapes with a Given Center of Mass
NAM 5 Room 5.3	Chairman: Kiguradze Zurab
15 ⁰⁰ : 15 ³⁰	Khajehnasiri Amir Ahmad.. Solving a Model for Recovery of Myocardial Infarction Due Diabetes
15 ³⁰ : 16 ⁰⁰	<u>Kheiri Hossein</u>, Mojaver Aida. Modeling the within-host Dynamics of Fractional-Order HIV Infection
16 ⁰⁰ : 16 ³⁰	Latif P., Majid Soleimani-damaneh. Robustness and Rate of Optimality in Linear Programming
16 ³⁰ : 17 ⁰⁰	<u>Shahmorad1 S., Nazari Susahab D.</u> Multistep Collocation Methods for Solving Fractional Differential Equations
17 ⁰⁰ : 17 ³⁰	Coffee break
NAM 6 Room 5.3	Chairman: Kiguradze Zurab

$17^{30} : 18^{00}$ **Mojtaba Dehghan Banadaki**, Polynomial
Optimization with Application to Solving Optimal
Control Problems

Section: Probability and Statistics /PS

September 5, Friday

PS 1

Room 6

Chairman: Nadaraya Elizbar.

$15^{00} : 15^{30}$

Kvaratskhelia Vakhtang, Tarieladze Vaja, Vakhania Nicholas, Unconditional Convergence of Random Series

$15^{30} : 16^{00}$

Sokhadze Grigol, Nadaraya Elizbar. On Integral functionals of density

$16^{00} : 16^{30}$

Glonti Omar, Purtukhia Omar, Some methods of integral representation of nonsmooth Brownian functionals of integral type

$16^{30} : 17^{00}$

Arabidze Dimitri, Integral Functionals of the Nadaraya-Watson Regression Function

$17^{00} : 17^{30}$

Coffee break

PS 2

Room 6

Chairman: Mania Mikheil.

$17^{30} : 18^{00}$

Chikvinidze Besik, Mania Mikheil. New proofs of some results on BMO martingales using BSDEs

$18^{00} : 18^{30}$

Babilua Petre, Dochviri Besarion, Jaoshvili Vakhtang, On the Reduction and convergence of Payoffs for Partially Observable Stationary Sequences

September 6, Saturday

PS 3

Room 6

Chairman: Purtukhia Omar

$15^{00} : 15^{30}$

Abolhasani Ali, Abolhasani Maryam, Two Different

	Approaches in Prediction of Infinite Variance ARMA(1,1)
15 ³⁰ : 16 ⁰⁰	Chelidze Giorgi, Mamporia Badri , Weakly independent random elements, Gaussian case
16 ⁰⁰ : 16 ³⁰	Nahapetian Boris , Khachatryan Linda , The Martingale Method in the Theory of Random Fields
16 ³⁰ : 17 ⁰⁰	Khechinashvili Zaza , About MLE on Infinite Dimensional Hilbert Space
17 ⁰⁰ : 17 ³⁰	Coffee break
PS 4	
Room 6	Chairman: Sokhadze Grigol.
17 ³⁰ : 18 ⁰⁰	Mamporia Badri , Stochastic differential equations in Banach space, generalized solutions and the problem of decomposability
18 ⁰⁰ : 18 ³⁰	Chobanyan Sergey. , Kolmogorov rearrangement problem and related inequalities

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