

ORGANIZERS:

Georgian Mathematical Union
Shota Rustaveli Batumi State University

ORGANIZING COMMITTEE:

Baladze Vladimir (Vice Chairman), Beridze Anzor (Vice Chairman), Davitashvili Tinatin (Scientific Secretary), Goginava Ushangi, Duduchava Roland (Chairman), Kadeishvili Tornike, Kvaratskhelia Vakhtang, Makharadze Shota, Meladze Hamlet (Vice Chairman), Oniani George, Tarieladze Vaja

PROGRAM COMMITTEE:

Baladze V., Chilachava T., Duduchava R., Giorgashvili L., Goginava U., Gogishvili G., Gvazava J., Jangveladze T., Japaridze G., Jibladze M., Kadeishvili T., Kharazishvili A., Khimshiashvili G., Kvinikadze M., Kvinikhidze A., Mania M., Meladze H., Nadaraia E., Natroshvili D., Omanadze R., Oniani G.G., Oturanc G., Pkhakadze K., Purtukhia O., Rabinovich V., Rukhaia Kh., Sokhadze G., Tarieladze V. (Chairman)

CONFERENCE SECTIONS:

- Real and Complex Analysis
Oniani G.G., Khimshiashvili G.
- Topology, Algebra and Number Theory
Baladze V., Kadeishvili T., Beridze A.
- Differential Equations and Mathematical Physics
Duduchava R., Natroshvili D., Kvinikhidze A.
- Probability and Statistics, Financial Mathematics
Nadaraia E., Tarieladze V., Purtukhia O.
- Applied Logic and Programming
Rukhaia Kh., Tibua L.
- Logic of Natural Languages and Computational Linguistics
Pkhakadze K., Maskharashvili A., Vashalomidze A.
- Mathematical Modeling and Numerical Analysis

- Meladze H., Chilachava T., Jangveladze T.
- Mathematical Education and History
Vepkhvadze T., Gogishvili G.
 - Continuum Mechanics
Buchukuri T., Gorgidze D., Giorgashvili L.

Plenary speakers:

Baladze V., Chobanyan S. and Levental Sh., Gordeziani D., Kadeishvili T., Mdzinarishvili L., Pkhakadze K., Rabinovich V., Wegert E.

Invited lecturers:

Baeriswyl D., Duduchava R., Japaridze G., Kadeishvili T., Khimshiasvili G., Lashkhi A. and Burchuladze D., Tarieladze V., Wegert E., Pkhakadze K., Rukhaia Kh.

SCHEDULE OF THE CONFERENCE

2 September, Sunday (Arrival day)

3 September, Monday

9⁰⁰ : 10⁰⁰ Registration

10⁰⁰ : 10²⁰ Opening ceremony

10²⁰ : 10⁵⁰ **Lecture: V.Tarieladze**
“Stefan Banach in Tbilisi”

11⁰⁰ : 11⁵⁰ **Lecture: E.Wegert**
“On one combinatorial problem related to pentagon”

11⁵⁰ : 12²⁰ **Coffee break**

12²⁰ : 13¹⁰ **Plenary Talk: V. Rabinovich**
“Diffraction problems on periodic metric graphs”

13¹⁰ : 15⁰⁰ Lunch

15⁰⁰ : 16³⁰ **Evening session (Sections)**

16³⁰ : 17⁰⁰ **Coffee break**

17⁰⁰ : 18³⁰ **Evening session (Sections)**

Sections:

- Applied Logic and Programming (p.11)
- Mathematical Education and History (p.13)
- Mathematical Modeling and Numerical Analysis (p.14)
- Topology, Algebra and Number Theory (p.17)
- Continuum Mechanics (p.20)

4 September, Tuesday

10⁰⁰ : 10⁵⁰ **Lecture: T.Kadeishvili**
„Homotopy Algebras in Topological Field Theory“

11⁰⁰ : 11⁵⁰ **Lecture: G. Khimshiasvili**
“Extremal problems on moduli spaces”

11⁵⁰ : 12²⁰ Coffee break

- 12²⁰ : 13¹⁰ **Plenary Talk: E.Wegert**
“On boundary value problems in circle packing”
- 13¹⁰ : 15⁰⁰ Lunch
- 15⁰⁰ : 16³⁰ **Evening session (Sections)**
- 16³⁰ : 17⁰⁰ Coffee break**
- 17⁰⁰ : 18³⁰ **Evening session (Sections)**
Sections:
- Logic of Natural Languages and Computational Linguistics (p.11)
 - Applied Logic and Programming (p.11)
 - Mathematical Modeling and Numerical Analysis (p.14)
 - Real and Complex Analysis (p.16)
 - Topology, Algebra and Number Theory (p.17)
 - Continuum Mechanics (p.20)

5 September, Wednesday

- 10⁰⁰ : 10³⁰ **Lecture: D.Baeriswyl**
“Quantum XX chain with interface”
- 10³⁰ : 11⁰⁰ **Lecture: G.Japaridze**
"Spintronics of Low dimensional Systems as one of the Leading Directions of Modern Nanoelectronics"
- 11⁰⁵ : 11⁵⁰ **Lecture: Kh. Rukhaia**
"Some Aspects of Applied Logic and Logical Programming" (I part)
- 11⁵⁰ : 12²⁰ Coffee break**
- 12²⁰ : 13¹⁰ **Plenary Talk: K. Pkhakadze**
“The Aims and Problems of Creation of the Technological Alphabet of the Georgian Language”
- 13¹⁰ : 15⁰⁰ Lunch
- Excursion

20⁰⁰ Conference Banquet

6 September, Thursday

10⁰⁰ : 10⁵⁰ **Lecture: K. Pkhakadze**
„Logic of Natural Languages, Computational Linguistics
and Gorgian Language”

11⁰⁰ : 11⁵⁰ **Lecture: Kh. Rukhaia**
"Some Aspects of Applied Logic and Logical
Programming" (II part)

11⁵⁰ : 12²⁰ **Coffee break**

12²⁰ : 13¹⁰ **Plenary Talk: S.Chobanyan, Sh.Levental**
“On the distribution of the Steinitz functional”

13¹⁰ : 15⁰⁰ Lunch

15⁰⁰ : 16³⁰ **Evening session (Sections)**

16³⁰ : 17⁰⁰ **Coffee break**

17⁰⁰ : 18³⁰ **Evening session (Sections)**
Sections:

- Probability and Statistics, Financial Mathematics (p.10)
- Differential Equations and Mathematical Physics (p.12)
- Topology, Algebra and Number Theory (p.17)

7 September, Friday

10⁰⁰ : 10⁵⁰ **Lecture: R.Duduchava**
“Differential equations with partial derivatives and
applications”

11⁰⁰ : 11⁵⁰ **Plenary Talk: V.Baladze**
“Coshape Theory and its Applications ”

11⁵⁰ : 12²⁰ **Coffee break**

12²⁰ : 13¹⁰ **Plenary Talk: D.Gordeziani**

“Mathematical modelling and numerical solution of some problems of water pollution and filtration problems of liquids”

13¹⁰ : 15⁰⁰

Lunch

15⁰⁰ : 16³⁰

Evening session (Sections)

16³⁰ : 17⁰⁰

Coffee break

17⁰⁰ : 18³⁰

Evening session (Sections)

Sections:

- Probability and Statistics, Financial Mathematics (p.10)
- Differential Equations and Mathematical Physics (p.12)
- Mathematical Modeling and Numerical Analysis (p.14)
- Real and Complex Analysis (p.16)
- Topology, Algebra and Number Theory (p.17)

8 September, Saturday

11⁰⁰ : 11⁵⁰

Lecture: A.Lashkhi, D.Burchuladze

“Georgian text-books in mathematics and their authors”

11⁵⁰ : 12²⁰

Coffee break

12²⁰ : 13¹⁰

Plenary Talk: L.Mdzinarishvili

“Continuous Homologies and Cohomologies ”

13¹⁰ : 15⁰⁰

Lunch

15⁰⁰ : 16³⁰

Evening session (Sections)

16³⁰ : 17⁰⁰

Coffee break

17⁰⁰ : 18³⁰

Evening session (Sections)

Sections:

- Real and Complex Analysis (p.16)
- Topology, Algebra and Number Theory (p.17)
- Continuum Mechanics (p.20)

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SCHEDULE OF THE SECTIONS

Probability and Statistics, Financial Mathematics

6 September, Thursday

- Room 1** **Chairman: Grigol Sokhadze**
15⁰⁰ : 15³⁰ **Petre Babilua, Elizbar Nadaraya, Grigol Sokhadze.**
About testing hypotheses for Bernoulli regression function
- 15³⁰ : 16⁰⁰** **Malkhaz Cucia, Medea Chania,** Markov models of calculations of insurance characteristics
- 16⁰⁰ : 16³⁰** **Vladimir Emelichev, Vladimir Korotkov,** Quantitative characteristic of stability of multicriteria investment problem with Wald's efficiency criteria
- 16³⁰ : 17⁰⁰** **Coffee break**
- 17⁰⁰ : 17³⁰** **Temur Kokobinadze,** Some of the methods of financial risk management
- 17³⁰ : 18⁰⁰** **Grigol Sokhadze, Omar Purtukhia, Zaza Khechinashvili.** Cramer-Rao inequality in the Hilbert space
- 18⁰⁰ : 18³⁰** **Mzevinar Pacacia, Vaja Tarieladze.** A Test for being Gaussian

7 September, Friday

- Room 1** **Chairman: Sergei Chobanyan**
15⁰⁰ : 15³⁰ **George Giorgobiani, Vaja Tarieladze,** A version of the rearrangement theorem
- 15³⁰ : 16⁰⁰** **Badri Mamporia,** On the Ornstein-Uhlenbeck Process in a Banach space
- 16⁰⁰ : 16³⁰** **Aleksander Shangua, Vaja Tarieladze,** Multipliers for WLLN
- 16³⁰ : 17⁰⁰** **Coffee break**
- 17⁰⁰ : 17³⁰** **Niko Vakhania, Vakhtang Kvaratskeli, Vaja Tarieladze,** A notion of a sub-Gaussian random element in Banach spaces

Logic of Natural Languages and Computational Linguistics

4 September, Tuesday

Room 2	Chairman: K.Pkhakadze
15 ⁰⁰ : 15 ³⁰	Henselmans Daan. Natural Language Generation of Tense and Aspect in a Narrative Context
15 ³⁰ : 16 ⁰⁰	Abzianidze Lasha, Designing and implementing an HPSG-based formal grammar for Georgian
16 ⁰⁰ : 16 ³⁰	Pkhakadze Konstantine, Chichua Giorgi, The Aims and Methods of Constructing of the Georgian Multi Voice Semantically Reader-Listener System
16³⁰ : 17⁰⁰	Coffee break
17 ⁰⁰ : 17 ³⁰	Maskharashvili Aleksandr, About the contracting symbols in Georgian and in some other languages
17 ³⁰ : 18 ⁰⁰	Vashalomidze Alexander, The allophone database of the Georgian speech synthesizer
18 ⁰⁰ : 18 ³⁰	Pkhakadze Konstantine, Chikvinidze Merab, Preliminary Version of the Georgian Syntax Analyzer

Applied Logic and Programming

3 September, Monday

Room 3	Chairman: Khimur Rukhaia
15 ⁰⁰ : 15 ³⁰	Pachuashvili Nikoloz, Kiviladze Teimuraz, Formal Method of Service Oriented Functional Decomposition
15 ³⁰ : 16 ⁰⁰	Kutkhashvili Ketevan, About one concept of programmin algorithms teaching
16 ⁰⁰ : 16 ³⁰	Archvadze Natela, Haskell - analizator of recursive functions
16³⁰ : 17⁰⁰	Coffee break
17 ⁰⁰ : 17 ³⁰	Iashvili George, Symetric criptographic algoritms to build freelexible Hill n-gram metod
17 ³⁰ : 18 ⁰⁰	Fedulov Genadi, Tibua Lali, Dzagania Tamaz, Babalian Konstantine, Iashvili Nugzar, The logical computer game for pupils to study English on the basis of t algorithm of solving the bin packing problem

18⁰⁰ : 18³⁰ **Beriashvili Mariam**, Measurability properties of sets and the light of additional set-theoretical axioms

4 September, Tuesday

Room 3 **Chairman: Pachuashvili Nikoloz**
15⁰⁰ : 15³⁰ **Rukhaia Khimuri, Tibua Lali, Chankvetadze Gela, Miqanadze Gvantsa**, Unranked theory with quantifiers
15³⁰ : 16⁰⁰ **Pkhakadze Sopo**, Property of e-reducibility for strongly effective immune sets
16⁰⁰ : 16³⁰ **Pkhakadze Nikoloz**, Quantifier Elimination in Quantified Propositional Lukasiewicz Logic
16³⁰ : 17⁰⁰ **Coffee break**
17⁰⁰ : 17³⁰ **Dundua Besik, Kutsia Temur**, Constraint Logic Programming for Hedges and Contexts
17³⁰ : 18⁰⁰ **Chankvetadze Gela**, A Program Transforming a Formula in a Tree Form

Differential Equations and Mathematical Physics

September 6, Thursday

Room: 4 **Chair: Roland Duduchava**
15⁰⁰ : 15³⁰ **David Natroshvili**, Acoustic scattering by inhomogeneous anisotropic obstacle
15³⁰ : 16⁰⁰ **Sergo Kharibegashvili, Bidzina Midodashvili**, On a Darboux type multidimensional problem for one class of second order nonlinear hyperbolic systems
16⁰⁰ : 16³⁰ **Bitsadze Rusudan**, On one nonlinear characteristic problem
16³⁰ : 17⁰⁰ **Coffee break**
Room: 4 **Chair: David Natroshvili**
17³⁰ : 17³⁰ **Ashordia Malkhaz**, On a two point boundary value problem for the system of the linear impulsive equations with singularities
17³⁰ : 18⁰⁰ **Ashordia Malkhaz, Kekelia Nestan**, On conditions for the well-posedness of nonlocal boundary value

18⁰⁰ : 18³⁰ problems for systems of a class of linear generalized ordinary differential equations with singularities
Sokhadze Zaza, The weighted Cauchy problem for nonlinear singular differential equations with deviating arguments

September 7, Friday

Room: 4 **Chair: Vladimir Rabinovich**

15⁰⁰ : 15³⁰ **Duduchava Roland , Kapanadze David, Tepnadze George, Tsaava Medea**, Boundary value problems for the Helmholtz equation in arbitrary 2D-sectors

15³⁰ : 16⁰⁰ **Halilov Huseyin, Bahadir Ö. Güler, Kadir Kutlu**, Dependence on Initial Conditions of a Solution to a Mixed Problem with Periodic Boundary Condition for a Class of Quasi-Linear Euler–Bernoulli Equation

16⁰⁰ : 17⁰⁰ **Coffee break**

Room: 4 **Chair: Sergo Kharibegashvili**

17³⁰ : 17³⁰ **Menteshashvili Marine**, Some nonlinear variant of the Darboux type nonlocal problem

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Mathematical Education and History

3 September, Monday

Room 5 **Chairman: Vepkhvadze Teimuraz**

15⁰⁰ : 15³⁰ **Babilua Petre, Sokhadze Grigol**, Preparation for the Certification Testing of Mathematics Teachers

15³⁰ : 16⁰⁰ **Gogishvili Guram**. One way to create university mathematics special courses

16⁰⁰ : 16³⁰ **Umarkhadzhieva Luiza**, Using a modern information technology to teach high mathematics in a technical college

16³⁰ : 17⁰⁰ **Coffee break**

17⁰⁰ : 17³⁰ **Sarajishvili Tsitsino**, Some aspects of teaching stability

- 17³⁰ : 18⁰⁰ of the solution of economic problems
Lomtadze Maka, Tsibadze Lamara, About Use of Fourier Series in Calculation of the Sum Of numerical Series
- 18⁰⁰ : 18³⁰ **Babilua Petre**, Teaching of Probability and Statistics by the IB Diploma Programme
- 18³⁰ : 19⁰⁰ **Deisadze Manana, Adeishvili Vladimer**, Algebraic and Arithmetic Ways of Solution of Some Problems
- 19⁰⁰ : 19³⁰ **Tsibadze Lamara, Lomtadze Maka**, Teaching of multiplication and division of numerical series

Mathematical Modeling and Numerical Analysis

3 September, Monday

- Room 6** **Chairman: Chilachava Temur**
- 15⁰⁰ : 15³⁰ **Karabacak Mesut, Yigider Muhammed, Çelik Ercan**, The numerical solution of fractional differential-algebraic equations (FDAEs)
- 15³⁰ : 16⁰⁰ **Khodadadi Ekhtiar, Çelik Ercan, Düşünceli Faruk**, Variational Iteration Method for Fuzzy Fractional Differential Equations with Uncertainty
- 16⁰⁰ : 16³⁰ **Okumuş İsrail, Çelik Ercan**. Classification of factors that affect the speed of the RSA cryptosystem
- 16³⁰ : 17⁰⁰ **Coffee break**
- 17⁰⁰ : 17³⁰ **Beridze Vakhtang**, Solution Bitsadze-Samarski Problem for the Helmholtz Equations With Mathcad
- 17³⁰ : 18⁰⁰ **Devadze David, Beridze Vakhtang**. Solution of An Optimal Control Problem With Mathcad
- 18⁰⁰ : 18³⁰ **Tsiklauri Zviad, Kachakhidze Nikoloz, Khomeriki Nodar**. On the solution of an equation of static string

4 September, Tuesday

- Room 6** **Chairman: Jangveladze Temur**
- 15⁰⁰ : 15³⁰ **Chilachava Temur**. About new mathematical model "beast -predator-victim"

- 15³⁰ : 16⁰⁰ **Kereselidze Nugzar.** Mathematical model of information warfare taking into account technological possibilities of the parties
- 16⁰⁰ : 16³⁰ **Meladze Hamlet, Davitashvili Tinatin, Criado Francisco.** Three Layer Factorized Difference Schemes for Solving the Systems of Differential Equations of Parabolic Type with Mixed Derivatives
- 16³⁰ : 17⁰⁰ **Coffee break**
- 17⁰⁰ : 17³⁰ **Davitashvili Teimuraz, Gubelidze Givi, Gordeziani David, Papukashvili Archil, Sharikadze Meri.** Mathematical Modeling of Leak Location in Compound Gas Pipeline Network
- 17³⁰ : 18⁰⁰ **Geladze George.** Numerical Modelling of Pollution Sources Optimisation
- 18⁰⁰ : 18³⁰ **Geladze George, Sharikadze Meri, Tevdoradze Manana.** Mathematical Simulation of a humidity processes ensemble

7 September, Friday

- Room 6** **Chairman: Meladze Hamlet**
- 15⁰⁰ : 15³⁰ **Poghosyan Arnak,** Accelerating the convergence of trigonometric interpolation via polynomial and rational corrections
- 15³⁰ : 16⁰⁰ **Poghosyan Lusine,** On a convergence of the quasi-periodic interpolation
- 16⁰⁰ : 16³⁰ **Khatiashvili Nino, Pirumova Kristina, Tevdoradze Manana,** On the Solution of One Nonlinear Elliptic Equation
- 16³⁰ : 17⁰⁰ **Coffee break**
- 17⁰⁰ : 17³⁰ **Jangveladze Temur.** On One Nonlinear One-dimensional Diffusion Model
- 17³⁰ : 18⁰⁰ **Kiguradze Zurab.** On Numerical Resolution of One System of Nonlinear Integro-Differential Equations
- 18⁰⁰ : 18³⁰ **Tavzarashvili K., Ghvedashvili G.** Simulation of Plasmonic structures by Using Method of Auxiliary Sources

8 September, Saturday

Room 6	Chairman: Davitashvili Teimuraz
15 ⁰⁰ : 15 ³⁰	Berikelashvili Givi, Khomeriki Nodar , On a numerical solution of one nonlocal boundary value problem with mixed Dirichlet-Neumann conditions
15 ³⁰ : 16 ⁰⁰	Odisharia Vladimer , The Approximate Solution of a Nonhomogeneous Differential Equation
16 ⁰⁰ : 16 ³⁰	Papukashvili Archil, Gordeziani David, Davitashvili Teimuraz, Sharikadze Meri , On One Finite-difference Method for investigation of stressed state of Composite Bodies Weakned by Cracks
16 ³⁰ : 17 ⁰⁰	Peradze Jemal , A numerical method for a beam equation

Real and Complex Analysis

4 September, Tuesday

Room 7	Chairman: Oniani George
15 ⁰⁰ : 15 ³⁰	Givradze Omar , Some types of functional equations
15 ³⁰ : 16 ⁰⁰	Oniani Giga, Tsivtsivadze Irma , On Parametric Representation and Zero Sets of Functions from the Space A^p
16 ⁰⁰ : 16 ³⁰	Oniani Giga, Tetvadze Gogi , Boundary properties of harmonic functions with integrable gradient in unit circle
16³⁰ : 17⁰⁰	Coffee break
17 ⁰⁰ : 17 ³⁰	Barsegian Grigor , Idea of complex conjugacy in differential geometry. Argument variation principle and Nevanlinna type results for conjugate surfaces
17 ³⁰ : 18 ⁰⁰	Lomidze Iia, Chachava Natela , Classification of Hermitian Matrices with Their Polynomial Invariants
18 ⁰⁰ : 18 ³⁰	Lomidze Iia, Javakhishvili Jimsher , At the Tetrad Representation of the Lorentz Group

7 September, Friday

Room 7	Chairman: Barsegian Grigor
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- $15^{00} : 15^{30}$ **Oniani George.**, Divergence of Fourier Series with Respect to Systems of Products of Bases
 $15^{30} : 16^{00}$ **Japaridze Erekle**, On boundary values of derivated Poisson integral
 $16^{00} : 16^{30}$ **Kheladze Shadiman**, On the metric kernel and shell
 $16^{30} : 17^{00}$ **Coffee break**
 $17^{00} : 17^{30}$ **Umarkhadzhiev Salaudin**, Boundedness of linear operators from generalized grand Lebesque spaces to generalized grand Morrey spaces
 $17^{30} : 18^{00}$ **Pantsulaia Gogi, Giorgadze Givi**, A description of behaviors of some phase motions in R^∞ in terms of ordinary and standard “Lebesgue measures”
 $18^{00} : 18^{30}$ **Bantsuri Leri**, On the relationship between conditions of differentiability and existence of generalized gradient

8 September, Saturday

Room 7 **Chairman: Kheladze Shadiman**

- $15^{00} : 15^{30}$ **Akhalaia Giorgi, Manjavidze Nino**, Generalized Analytic Functions
 $15^{30} : 16^{00}$ **Makatsaria Giorgi**, Liouville theorems for the systems of elliptic equations

Topology, Algebra and Number Theory

3 September, Monday

Room 8 **Chairman: Khimshiashvili Giorgi**

- $15^{00} : 15^{30}$ **Bakuradze Malkhaz**, Morava K-theory atlas for finite groups
 $15^{30} : 16^{00}$ **Baladze Vladimer**, On homology and shape theories of compact Hausdorff spaces
 $16^{00} : 16^{30}$ **Baladze Vladimer, Tsinaridze Ruslan**, On normal homology and cohomology theories
 $16^{30} : 17^{00}$ **Coffee break**
 $17^{00} : 17^{30}$ **Beridze Anzor**, Partial continuity of strong homology

- 17³⁰ : 18⁰⁰ group of continuous map
Turmanidze Lela, On the Strong Uniform Homology Theory
- 18⁰⁰ : 18³⁰ **Mdzinarishvili Leonard**, Continuous Hu cohomology

4 September, Tuesday

- Room 8** **Chairman: Baladze Vladimer**
- 15⁰⁰ : 15³⁰ **Surmanidze Onise**, On the characteristic theory of weekly linearly compact topological abelian groups
- 15³⁰ : 16⁰⁰ **Tsereteli Ivane**, On a Special Class of Topological Spaces
- 16⁰⁰ : 16³⁰ **Salimov Arif**, On hypercomplex structures
- 16³⁰ : 17⁰⁰** **Coffee break**
- 17⁰⁰ : 17³⁰ **Ruşen Yilmaz, Yilmaz Altun**, r-orthomorphisms and their Arens triadjoints
- 17³⁰ : 18⁰⁰ **Nejmi Cengiz**, Torsion tensors of pure Pi-connections
- 18⁰⁰ : 18³⁰ **Khaburdzania Razhden**, On the First Order About the Cyclical Conjugate System in Four Dimensional Elliptical Space Structure Improper Hyperplane

6 September, Thursday

- Room 8** **Chairman: Beridze Anzor**
- 15⁰⁰ : 15³⁰ **Bayramov Sadi, Ciğdem Gunduz (Aras)**, Separable and compact soft topological space
- 15³⁰ : 16⁰⁰ **Taha Yasin Ozturk, Ahmet Kuçuk**, Homological methods in category of fuzzy soft modules
- 16⁰⁰ : 16³⁰ **Murat Ibrahim Yazar, Ciğdem Gunduz (Aras), Bayramov Sadi**, Inverse limits in category of fuzzy soft modules
- 16³⁰ : 17⁰⁰** **Coffee break**
- 17⁰⁰ : 17³⁰ **Bibileishvili Gulnara**, Centered configurations of open linkages
- 17³⁰ : 18⁰⁰ **Elerdashvili Eka, Jibladze Mamuka, Khimshiashvili Giorgi**, Cyclic configurations of pentagon linkages

7 September, Friday

- Room 8** **Chairman: Mdzinarishvili Leonard**
- 15⁰⁰ : 15³⁰ **Bokelavadze Tengiz**, Abelian and nilpotent varieties of 2-step nilpotent power groups
- 15³⁰ : 16⁰⁰ **Bokelavadze Tengiz, Chabashvili Maia**, On the Lattice Isomorphisms of 2-Nilpotent W-Power Hall Groups and Lie Algebras
- 16⁰⁰ : 16³⁰ **Diasamidze Yasha**, Some Regular elements, Idempotents and Right units of Complete Semigroups of Binary Relations Defined by Semilattices of The Class Right Side Incomplete Nets
- 16³⁰ : 17⁰⁰ **Coffee break**
- 17⁰⁰ : 17³⁰ **Karalashvili Liana, Kutkhashvili Ketevan, Kalendarishvili David**, Properties of the Certain Centro-Symmetric Matrices Similar to the Unit Matrix
- 17³⁰ : 18⁰⁰ **Kemoklidze Tariel**, On one hypothesis of Moskalenko
- 18⁰⁰ : 18³⁰ **Rakviashvili Giorgi**, On primitive elements of free Lie p-algebras

8 September, Saturday

- Room 8** **Chairman: Bokelavadze Tengiz**
- 15⁰⁰ : 15³⁰ **Kasrashvili Tamar**, On Some Properties of Quasi-Diophantine Sets in Euclidean Spaces
- 15³⁰ : 16⁰⁰ **Vepkhvadze Teimuraz**, On the Number of Representations of Positive Integers by Some Diagonal Quadratic Forms of 16 Level
- 16⁰⁰ : 16³⁰ **Beridze Vakhtang**, Solution Bitsadze-Samarski Problem for the Helmholtz Equations With Mathcad
- 16³⁰ : 17⁰⁰ **Coffee break**
- 17⁰⁰ : 17³⁰ **Zivzivadze Lela**, Characterization of planes in quasyconformal mappings
- 17³⁰ : 18⁰⁰ **Mikiashvili Givi**, Hypercombined numbers

Continuum Mechanics

3 September, Monday

Room: 9

Chairman: Levan Giorgashvili

15⁰⁰ : 15³⁰

Chkadua Otar, Asymptotic analysis of interface crack problems for metallic-piezoelectric composite structures
Ivanidze Diana, Uniqueness theorems for the basic interface problems of thermoelastostatics for hemitropic composite bodies

16⁰⁰ : 16³⁰

Ivanidze Marekh, Uniqueness theorems for the basic interface problems of thermoelastostatics for anisotropic composite bodies

16³⁰ : 17⁰⁰

Coffee break

17⁰⁰ : 17³⁰

Khomasuridze Nuri, Janjgava Roman, Statements and solutions of some non-classical problem of thermoelasticity for rectangular parallelepiped

17³⁰ : 18⁰⁰

Lomidze Iia, Javakhishvili Jimsher, Thermodynamics of Barochronic Potential Flow of Ideal Liquid (Gas)

18⁰⁰ : 18³⁰

Oturanc Galip, Sema Bodur, H. Alpaslan Peker, Analysis of Winkler's Model of Elastic Foundation Using Differential Transform Method

4 September, Tuesday

Room: 9

Chairman: Tengiz Buchukuri

15⁰⁰ : 15³⁰

A.G. Bagdov, Some synergetic treatments of wave dynamics in application to stochastic processes in semiconductors, traffic flow, fracture mechanics

15³⁰ : 16⁰⁰

Odishelidze Nana, Francisco Criado-Aldeanueva, Francisco Criado, Partially Unknown Boundaries Problems of Elasticity and Plate Bending (Equi-strong contours finding problem)

16⁰⁰ : 16³⁰

Sargsyan Samvel H., Farmanyan A.J., Mathematical Model of Dynamics of Micropolar Elastic Orthotropic

- Multilayered Thin Plates
16³⁰ : 17⁰⁰ **Coffee break**
17⁰⁰ : 17³⁰ **Svanadze Kosta**, On One Problem of the Plane Theory of Elastic Mixture For a Half-Plane Weakened by Periodically Arranged Equally Strong Holes
17³⁰ : 18⁰⁰ **Tsutskiridze Varden, Jikidze Levan**, Motion of a viscous hydromagnetic fluid contained between rotating coaxial cylinders
18⁰⁰ : 18³⁰ **Vantsyan A.A.**, Impact of a deformable indenter and the plate in the presence of discharge current

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15³⁰ : 16⁰⁰ **Jaghmaidze Aslan, Meladze Revaz**, The Boundary Value Problems of Statics of the Two-temperature Theory Elastic Mixtures for a Domain Bounded by Spherical Surface
16⁰⁰ : 16³⁰ **Meladze Revaz, Kharashvili Maia, Skhvitaridze Ketevan**, A Two-Component Elastic Mixture with Different Temperature Values in a Scalar Field
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