

**Enlarged Sessions of the Seminar of I. Vekua Institute
of Applied Mathematics**

Section of Partial Differential Equations

21 April, 2005

11⁰⁰ – 11²⁰. **Gvazava J.** (RMI, Georgia) On the Oblique Derivative Problem with Data on Free Characteristic.

11²⁵ – 11⁴⁵. **Avalishvili G., Avalishvili M., Gordeziani D.** (VIAM, Georgia) Initial Boundary Value Problem for One Generalization of Schrödinger Equation.

11⁵⁰ – 12¹⁰. **Jikia V.** (TSU, Georgia) A Class of One System of Equations Degenerating at a Point.

12¹⁵ – 12³⁵. **Kapanadze J.** (RMI, Georgia) On the Solvability of Nonlocal Problem in Smooth Domains.

12⁴⁰ – 13⁰⁰. **Kaldani N.** (TSU, Georgia) Generalized Meromorphic Functions.

13⁰⁵ – 13²⁵. **Chinchaladze N.** (VIAM, Georgia) Vibration of an Elastic Plates Under Action of an Incompressible Fluid in Case of $N = 0$ Approximation of Vekua's Hierarchical model.

13³⁰ – 13⁵⁰. **Khatiashvili N.** (VIAM, Georgia) On the Singular Integral Equations with the Quasi- Periodic Kernel.

22 April, 2005

11⁰⁰ – 11²⁰. **Ricci P., Tavkheldze I.** ("La Sapienza", Italy and VIAM, Georgia) About the Analytic Representation of a Class of Geometrical Figures, Surfaces and Lines.

11²⁵ – 11⁴⁵. **Kharibegashvili S.** (RMI, Georgia) On the Correct Formulation of Some Boundary Value Problems for a Class of Hyperbolic Systems of Second Order in Conic Domains.

11⁵⁰ – 12¹⁰. **Jangveladze T., Kiguradze Z.** (TSU, Georgia) On the Asymptotic Behaviour As $t \rightarrow \infty$ of Solutions of One Nonlinear Integro-Differential Parabolic Equation Arising in the Penetration of a Magnetic Field Into a Substance.

12¹⁵ – 12³⁵. **Shulaia D.** (VIAM, Georgia) On a Linear Integral Equation of the Third Kind Arising From the Neutron Transport Theory.

Section of Mechanics of Deformable Solids

21 April, 2005

- 10⁰⁰ – 10²⁰. **Basheleishvili M.** (VIAM, Georgia) Solution of Contact and Boundary-Contact Problems for Anisotropic Nonhomogeneous Two-dimensional Bodies.
- 10²⁵ – 10⁴⁵. **Giorgashvili L. Meladze R.** (GTU and VIAM, Georgia) About One Non-Classical Problem in Theory of Elasticity.
- 10⁵⁰ – 11¹⁰. **Gulua B.** (TSU, Georgia) About One Boundary Value Problem for Non-Shallow Cylindrical Shells.
- 11¹⁵ – 11³⁵. **Vashakmadze T.** (VIAM, Georgia) To Construction and Justification of von Karman Type Systems of Equations of Equations for Binary Mixtures and Piezo-Elastic Plates.
- 11⁴⁰ – 12⁰⁰. **Zazashvili Sh.** (TSU, Georgia) The Mixed Boundary Value Problem of Statics of the Theory for Elastic Anisotropic for Finite Plane Domain with Curvilinear Cuts.
- 12⁰⁵ – 12²⁵. **Meunargia T.** (VIAM, Georgia) The Method of a Small Parameter for the Non-Shallow Shells.
- 12³⁰ – 12⁵⁰. **Svanadze K.** (KSU, Georgia) Generalized Robin's Problems for the Equation of Statics of the Elastic Mixtures.
- 12⁵⁵ – 13¹⁵. **Svanadze M.** (VIAM, Georgia) The Boundary Value Problems of Oscillations for Elastic Solids with Microstructure.
- 13²⁰ – 13⁴⁰. **Chokoraia D.** (TSU, Georgia) The Mixed Boundary Value Problem for the Non-Shallow Spherical Shells.

22 April, 2005

- 10⁰⁰ – 10²⁰. **Baghaturia G.** (GTU, Georgia) Non-Stationery Problem of Transversely Displaced Crack Propagation in an Infinite Elastic Compound Zone.
- 10²⁵ – 10⁴⁵. **Bitsadze L.** (VIAM, Georgia) Basic Boundary Value Problems for Transversally Isotropic Mixtures.
- 10⁵⁰ – 11¹⁰. **Giorgashvili L., Toradze D., Tsagareli I.** (GTU and VIAM, Georgia) Solution of the First Boundary Value Problem of Statics of the Theory of Thermoelastic Mixture for a Disc.
- 11¹⁵ – 11³⁵. **Zirakashvili N.** (VIAM, Georgia) An Application of the Boundary Element Method in Numerical Analysis of Stress Concentration for Elastic Body.
- 11⁴⁰ – 12⁰⁰. **Sadunishvili G., Karseladze G.** (GTU, Georgia) Elastic Body in the Scalar Field.
- 12⁰⁵ – 12²⁵. **Kharashvili M.** (GTU, Georgia) The Stationary Current of the Micropolar Viscous Incompressible Fluid Outside of an Infinite Pipe.
- 12³⁰ – 12⁵⁰. **Khmiadashvili M., Skhvitaridze K.** (GTU, Georgia) Two Elastic

Solids Interaction Problem.

12⁵⁵ – 13¹⁵. **Janjgava R.** (VIAM, Georgia) Partially Clamped Shallow Shells Composition of Binary Mixture.

13²⁰ – 13⁴⁰. **Zirakashvili N.** (VIAM, Georgia) Solution of Outside Problem of Plane Elasticity Theory by Boundary Element Method.

Section of Computing Mathematics and Mathematical Modeling

22 April, 2005

10⁰⁰ – 10²⁰. **Vashakmadze T., Kusradze N.** (VIAM, Georgia) To Approximate Solution of Evolutionary Equation with Periodical Boundary Conditions in Unbounded Interval to Respect Time.

10²⁵ – 10⁴⁵. **Vashakmadze T., Godabrelidze V.** (VIAM, Georgia) To Error Estimate of Multipoint Method on Classes of Functions.

10⁵⁰ – 11¹⁰. **Antidze J., Gulua N.** (VIAM and TSU, Georgia) On Semantic Analysis of a Natural Language Phrases.

11¹⁵ – 11³⁵. **Sharikadze J.** (TSU, Georgia) Some Problems of Distribution of Temperature in the Flow of Viscous Fluid with Mass Sources and Sinks.

11⁴⁰ – 12⁰⁰. **Sharikadze J., Kobadze N.** (TSU, Georgia) Some Unsteady Problems of Conducting Fluid Near an Infinite Flat Plate with External Magnetic Field.

12⁰⁵ – 12²⁵. **Komurjishvili O.** (VIAM, Georgia) Finite Difference Schemes for Multidimensional Parabolic Type Equation with Constant Coefficients.

12³⁰ – 12⁵⁰. **Bolotashvili G.** (Inst of Cybernetics, Georgia) The Examples of Non-Integer Vertices of the Relaxation Polytope of the Linear Ordering Problem and Their Structure.

12⁵⁵ – 13¹⁵. **Nanobashvili N.** (TSU, Georgia) Mathematical Modeling of an Artificial Intellect.

14²⁰ – 14⁴⁰. **Antidze J., Mishelashvili D.** (VIAM, Georgia) Software Tools for Morphological and Syntactic Analysis of Georgian Texts.

14⁴⁵ – 15⁰⁵. **Davitashvili T., Geladze G., Gunava G., Mirianashvili K., Samkharadze I.** (TSU and VIAM, Georgia) Study of Variations of Meteorological Fields on Human Health.

15¹⁰ – 15³⁰. **Davitashvili T., Geladze G., Gunava G., Samkharadze I.** (VIAM and TSU, Georgia) On the Mathematical Model Describing of Georgian Territory Possible Pollution From the Hot Points Dispersed in the Northern Caucasus.

15³⁵ – 15⁵⁵. **Gordeziani D., Gordeziani N., Gordeziani E.** (VIAM, Georgia) Difference Schemes for Generalized Schrödinger Equation.

16⁰⁰ – 16²⁰. **Lobjanidze G.** (TSU, Georgia) On One Variational Interpretation of Bitsadze-Samarskii Non-Local Boundary Value Problem for the Biharmonic Equation.

16²⁵ – 16⁴⁵. **Rogava J. Rogava D.** (TSU and VIAM, Georgia) On the Convergence of Iteration Methods of a Spherical Shell for I. Vekua's System.

16⁵⁰ – 17¹⁰. **Gagnidze L., Veliashvili N., Jibuti M.** (TSU and VIAM, Georgia) On the Using of One Technology of Data Achieve in Data Basis.