

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

Section of Computing Mathematics and Mathematical Modeling

*(Section Head - Professor David Gordeziani
Scientific Secretary - Professor Teimuraz Davitashvili)*

26 April, 2006

Head of session Prof. T. Davitashvili

11⁰⁰ – 11²⁰. **Vashakmadze T., Manelidze G., Papukashvili T.** (TSU, Georgia) On Application of Alternating to Perturbation Techniques Method to Linear Boundary Problems.

11²⁵ – 11⁴⁵. **Vashakmadze T., Kusradze N., Manelidze G., Chikashua R.** (TSU, Georgia) On Application of Alternating to Perturbation Techniques Method to Linear Algebraic Systems of Equations.

11⁵⁰ – 12¹⁰. **Peradze J.** (TSU, Georgia) Approximation of a Local Solution of the Kirchhoff Sting Equation.

12¹⁵ – 12³⁵. **Komurjishvili O., Khomeriki N.** (VIAM, MICM, Georgia) On a Difference Scheme for Solution of Systems of Equations of Dynamical Multidimensional Problems of the Elasticity Theory and Shell Theory.

12⁴⁰ – 13⁰⁰. **Komurjishvili O., Davitashvili T., Gunava G.** (VIAM, Georgia) On Numerical Schemes of the Nonlinear Parabolic Type Equation Describing Fluid Filtration in Soil.

13⁰⁵ – 13²⁵. **Zirakashvili N.** (VIAM, Georgia) Numerical Solutions of Some Boundary-Value Problems of Theory of Elasticity by Boundary Element Method.

Head of session Prof. J. Rogava

14⁰⁰ – 14²⁰. **Khvedelidze Z., Davitashvili T., Samkharadze I.** (TSU, VIAM, Georgia) Investigation of Features of Aero and Hydro-Dynamic Flows in a Narrow Channel in View of the Relief of Bottom.

14²⁵ – 14⁴⁵. **Sharikadze J.** (TSU, Georgia) Multiple Parameter Method in Boundary Layer Theory of Variable Conducting Fluid with Suction and Heat Transfer.

14⁵⁰ – 15¹⁰. **Kobadze N., Sharikadze J.** (TSU, Georgia) Asymptotics Solutions of One Similar Problem of Boundary Layer of Conducting Fluid with Suction and Heat Transfer.

15¹⁵ – 15³⁵. **Geladze G., Davitashvili T., Skhirtladze N., Gunava G.** (VIAM, TSU, Georgia) About the Numerical Model of Clouds by Taking into Account of Some Additional Moments of Solar Radiation.

15⁴⁰ – 16⁰⁰. **Geladze G., Davitashvili T., Skhirtladze N., Gunava G.** (VIAM, TSU, Georgia) The Numerical Model of Clouds by Taking into Account of Microphysics Elements.

16⁰⁵ – 16²⁵. **Tavkhelidze I., Ricci P., Casiza K., Tsiskaridze A.** (VIAM, Georgia, University of Rome "La Sapienza", Italy) On the Classification of One Class of Moving Geometrical Bodies, Surfaces and Lines.

16³⁰ – 16⁵⁰. **Tavkhelidze I., Abesadze T., Avazashvili N., Nakashidze M.** (VIAM, Georgia) On Some Properties of Bodies and Surfaces of the Generalized Moebius Listing.

27 April, 2006

Head of session Prof. David Gordeziani

10⁰⁰ – 10²⁰. **Davitashvili T., Samkharadze I., Gunava G., Geladze G., Dikhaminjia N.** (VIAM, Georgia) On One 3D Numerical Model of Harmful Substances Transfer with Account of Composite Orography.

10²⁵ – 10⁴⁵. **Devdariani G., Gubelidze G.** (VIAM, Georgia) On Hydraulic Calculus of the Main Pipe-line or a Base of the Non-linear Model.

10⁵⁰ – 11¹⁰. **Antidze J., Mishelashvili D., Nukradze L.** (VIAM, TSU, Georgia) System of Computer Morphological Analysis of Georgian Language.

11¹⁵ – 11³⁵. **Davitashvili T., Geladze G., Dikhaminjia N.** (VIAM, Georgia) Mathematical Modeling of Soil Pollution by Oil for Urban Conditions.

11⁴⁰ – 12⁰⁰. **Lomtadze T., Rogava J., Tsiklauri M.** (TSU, VIAM, Georgia) On Approximate Solution of Cauchy Problem for Abstract Hyperbolic Equation for Sine and Cosine Operator Functions using Rational Approximation.

12⁰⁵ – 12²⁵. **Rogava J., Tsiklauri M.** (VIAM, Georgia) Decomposition Formulas for Sine and Cosine Operator Functions.

12³⁰ – 12⁵⁰. **Davitashvili T., Gunava G., Geladze G., Dikhaminjia N.** (VIAM, Georgia) On One Numerical 3D Model of Soil Pollution by Oil under High Pressure.

12⁵⁵ – 13¹⁵. **Chigladze R.** (TSU, Georgia) Electropolarimetric Investigation of Jupiters Galilean Satellites.

13²⁰ – 13⁴⁰. **Chigladze R.** (TSU, Georgia) One Hypothesis about Jupiters Galilean Satellites.

13⁴⁵ – 14⁰⁵. **Andreev A., Chalidze A.** (Russian State Institute of Open Education, Russia; VIAM, Georgia) Distance Education: the Condition and Problems.

14¹⁰ – 14³⁰. **Babilua P., Bokuchava I., Dochviri N., Shashiashvili M.** (TSU, Georgia) On the Problem of Convergence of Costs.

14³⁵ – 14⁵⁵. **Zirakishvili N., Janjgava R., Mosia M., Narmania M.** (VIAM, Georgia) An Application of the Boundary Elements Method for Solving of the Boundary Value Problems for Binary Mixtures.

15⁰⁰ – 15²⁰. **Zarnadze D., Ugulava D.** (MICM, Georgia) On the Application of

Ritz's Extended Method for Some Ill-posed Problems.

15²⁵ – 15⁴⁵. **Avalishvili G., Avalishvili M.** (VIAM, Georgia) On One Space Numerical Problem for Two-component Elastic Mixture

15⁵⁰ – 16¹⁰. **Gordeziani D.** (VIAM, Georgia) On One Initial-Boundary Value Problem of a New Type.

16¹⁵ – 16³⁵. **Gordeziani E., Datoli J.** (VIAM, Georgia; FIS-MAT Unit, ENEA Frascati, Rome Italy) On Solution of Cauchy Problem for One First Order Partial-Differential Equation.

16⁴⁰ – 17⁰⁰. **Abuladze T., Babilua P., Dochviri B., Shashiashvili M.** (TSU, Georgia) On the Modeling of the European Option Pricing Theory.