

**Programm of the Seminar of
I. Vekua Institute of Applied Mathematics**

2002

9.01 **Botchorishvili R.** (*I.Vekua Institute of Applied Mathematics*) Kinetic solutions to nonlinear scalar conservative laws.

16.01 **Komurjishvili O.** (*I.Vekua Institute of Applied Mathematics*) New finite-difference schemes for some equations of hyperbolic type.

23.01 **Khomasuridze N.** (*I.Vekua Institute of Applied Mathematics*) Symmetry principles in linear and nonlinear mechanics.

30.01 **Gegeckori Z., Rogava J., Tsiklayri M.** (*I.Javakishvili Tbilisi State University, I.Vekua Institute of Applied Mathematics*) High order of accuracy decomposition of evolution problem using resolvent polynomials.

06.02 **Aburjania G.** (*I.Vekua Institute of Applied Mathematics*) Mathematical interpretation of electromagnetic inertia laws.

13.02, 27.02 **Vashakmadze T., Muradova A.** (*I.Vekua Institute of Applied Mathematics*) To justification of von Karman system of elastic plates and estimation of arithmetic operations needing for numerical solution of some boundary value problems for ordinary differential equation.

20.02 **Davitashvili T.** (*I.Vekua Institute of Applied Mathematics*) The construction and investigation of parallel algorithms for solving of some nonlinear equations and systems of equations.

6.03 **Avalishvili G.** (*I.Vekua Institute of Applied Mathematics*) Investigation of some nonclassical problems for hyperbolic equations.

13.03 **Khomasuridze N.** (*I.Vekua Institute of Applied Mathematics*) Solutions of some boundary value problems in the theory of thermoelasticity.

20.03 **Davitashvili T., Sitchinava V.** (*I.Vekua Institute of Applied Mathematics, I.Javakishvili Tbilisi State University*) On the mathematical model of the air pollution in the town.

27.04 **Khomasuridze N.** (*I.Vekua Institute of Applied Mathematics*) Solutions of some boundary value problems in the theory of thermoelasticity for a cone.

3.04 **Gorgodze N.** (*Kutaisi State University*) Neutral type-optimal control problems with non-fixed initial moment.

10.04 **Gordeziani D.** (*I.Vekua Institute of Applied Mathematics*) Differential equations on beam structures.

17.04 **Sanikidze J., Zivzivadze L.** (*N.Muskhelishvili Institute of Computation Mathematics Georgian Academy of Sciences Tsereteli Kutaisi State University*) On singular integral approximation method in numerical conformal mappings.

27.04 **Kapanadze G.** (*I.Javakishvili Tbilisi State University*) One mixed problem of the theory of analytical functions for circular ring cut along an arc of circle.

1.05 **Karseladze G.** (*Georgian Technical University*) Explicit solutions of problems of interaction of different dimensional fields.

8.05 **Khatiasvili N.** (*I.Vekua Institute of Applied Mathematics*) On one boundary value problem for the analytical double periodic functions.

15.05 **Gubelidze G., Devdariani G., Chkhartishvili.** (*I.Vekua Institute of Applied Mathematics*) Control of oil flow by boundary condition in multilayer oil field.

22.05 **Geladze G.** (*I.Vekua Institute of Applied Mathematics*) About numerical models of mesoscale boundary layer of atmosphere.

29.05 **Pkhakadze K.** (*I.Vekua Institute of Applied Mathematics*) To words formal-logical description of Georgian leanguage system.

5.06 **Peradze J., Odisharia V., Abesadze T.** (*I.Javakhishvili Tbilisi State University, I.Vekua Institute of Applied Mathematics*) On the influence of a calculation error on a solution of nonlinear Kirckhoff equation.

12.06 **Kirtskhalia V., Jvania I.** On Landau solution of the tangential discontinuity stabilization problem.

19.06 **Antidze I., Mishelashvili D.** (*I.Vekua Institute of Applied Mathematics, I.Javakhishvili Tbilisi State University*) Parser for augmented context free grammar.

26.06 **Aburjania G.** (*I.Vekua Institute of Applied Mathematics*) Physical and mathematical models of Generation of large-scale Vortical electric fields in the ionosphere.

3.07, 17.07 **Pkhakadze K.** (*I.Vekua Institute of Applied Mathematics*) Words mathematical theores.

3.07 **Chanturia A.** (*I.Javakhishvili Tbilisi State University*) Difference schemes for solving the guasi-linear hyperbolic of equations for some hidrodynamic problems.

11.09, 18.09, 25.09 **Gordeziani D., Avalishvili G., Avalishvili M., Gordeziani N., Gordeziani E.** (*I.Vekua Institute of Applied Mathematics, I.Javakhishvili Tbilisi State University*) Semi-discret methods for problems of mathematical physics.

18.09 **Botchorishvili R., Joppich W., Reschke H-G.** (*I.Vekua Institute of Applied Mathematics, Fraunhofer Institute for Algorithms and Scientific Computing Schloss Birlinghoven*) Numerical and technical aspects of climate simulation and analysis of satellite data.

25.09 **Davitashvili T., Dikhaminjia N., Gunava G., Komurjishvili O.** (*I.Vekua Institute of Applied Mathematics*) Pollutants transfer in environment with one new three-dimensional numerical scheme.

9.10, 16.10 **Vashakmadze T.** (*I.Vekua Institute of Applied Mathematics*) To construction and justification of von Karman type models for elastic binary mixture and poroelastic plates.

23.10 **Tavkheldze I.** (*I.Vekua Institute of Applied Mathematics*) Some remarks about Mobins surfaces.

23.10 **Gordeziani N.** (*I.Javakhishvili Tbilisi State University*) Nonlocal problems for some equations of mathematical physics.

30.10 **Chinchaladze N.** (*I.Vekua Institute of Applied Mathematics*) A Cusped Elastic Plate-Ideal Incompressible Fluid Interaction Problem.

6.11 **Gordeziani G.** (*I.Vekua Institute of Applied Mathematics*) Application of approximate methods in theory of elasticity and shell theory.

6.11 **Jaiani G.** (*I.Vekua Institute of Applied Mathematics*) Relation of hierarchical models of cusped elastic plates and shells to the three-dimensional models.

27.11 **Gordeziani D.** (*I.Vekua Institute of Applied Mathematics*) Local homogeneous methods for pluryparabolic equations.

11.12 **Chinchaladze N.** (*I. Vekua Institute of Applied Mathematics*) On a Vibration of an Isotropic Cusped Elastic Plates Under Action of an Incompressible viscous Fluid.

18.12 **Devdariani G.** (*I. Vekua Institute of Applied Mathematics*) On some classical problems of nonlinear elasticity.

25.12 **Berulava R.** (*I. Vekua Institute of Applied Mathematics*) Lexicographic questions in natural sciences and a new system of abbreviations in the georgian language.

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