

# Advance Courses of TICMI in Applied Mathematics



6-7 OCTOBER, 2014, TBILISI, Georgia  
I. Vekua Institute of Applied Mathematics  
of I. Javakhishvili Tbilisi State University  
2 University St., Tbilisi, Georgia

## October 6, 2014

- 15<sup>00</sup>-15<sup>30</sup>**      **Opening**
- 15<sup>30</sup>-16<sup>15</sup>**      **A. Hasanoglu** (Turkey). Introduction to Variational Problems and Finite Element Methods (FEM): *Basic Theory*
- 16<sup>15</sup>-17<sup>00</sup>**      **W. Müller** (Germany). Microstructural Simulations with Cahn-Hilliard Theory
- 17<sup>00</sup>-17<sup>45</sup>**      **G. Avalishvili** (Georgia). On Investigation of Some Nonclassical Models for Thermoelastic Bodies
- 17<sup>45</sup>-18<sup>15</sup>**      **Round Table**

## October 7, 2014

- 14<sup>45</sup>-15<sup>30</sup>**      **A. Hasanoglu** (Turkey). Introduction to Variational Problems and Finite Element Methods: *FEM Technology and Numerical Issues*
- 15<sup>30</sup>-16<sup>15</sup>**      **W. Müller** (Germany). Higher Gradient Theories: Applications to the Size Effect in Submicrostructures Incl. Experimental Analysis of Elastic Material Parameters
- 16<sup>15</sup>-17<sup>00</sup>**      **D. Patariaia** (Georgia). Calculation of the Complex Cable-Rod Structure on the Basis of Discrete Conception and Modified Method of Approximation by Parabola
- 17<sup>00</sup>-17<sup>45</sup>**      **M. Avalishvili** (Georgia). Hierarchical Modeling of Thermoelastic Shells within the Framework of Nonclassical Theories of Thermoelasticity
- 17<sup>45</sup>-18<sup>15</sup>**      **Round Table**

## ORGANIZERS

I. Javakhishvili Tbilisi State University

- Tbilisi International Centre of Mathematics and Informatics (TICMI)
- I. Vekua Institute of Applied Mathematics
- Faculty of Exact and Natural Sciences, Department of Mathematics, Chair of Mechanics