

# **Program of the Seminar**

within the framework of the Project (№ 217596)

## **Construction and investigation of hierarchical models for thermoelastic piezoelectric structures**

27 – 29 September, 2017, Tbilisi

I.Vekua Institute of Applied Mathematics

of

I. Javakhishvili Tbilisi State University

27 September, 2017, Wednesday

VIAM Council Room

- 12.15 – 12.30 : **Opening.**  
**G. Jaiani, G. Avalishvili.** The aim of the project and seminar
- 12.35 – 13.05 : **G. Avalishvili, M. Avalishvili.** On three-dimensional static problems for multilayer thermoelastic piezoelectric solids with regard to magnetic field
- 13.10 – 13.40 : **G. Avalishvili, M. Avalishvili.** On hierarchical one-dimensional models of thermoelastic bars

**DISCUSSIONS THROUGHOUT THE DAY**

28 September, 2017, Thursday

VIAM Council Room

- 11.00 – 11.30 : **W. Müller.** Forces and deformations in solid bodies due to electro-mechanical interaction
- 11.35 – 12.05 : **G. Jaiani.** On two ways of investigation of BVPs for cusped prismatic shells
- 12.10 – 12.40 : **G. Avalishvili, M. Avalishvili.** On development of I. Vekua method for construction of hierarchical models of elastic structures

**DISCUSSIONS THROUGHOUT THE DAY**

29 September, 2017, Friday

VIAM Council Room

- 11.00 – 11.30 : **G. Jaiani, N. Chinchaladze, M. Gabelaia.** Field equations for piezoelectric Kelvin-Voigt materials. Antiplane deformation for piezoelectric Kelvin-Voigt materials
- 11.35 – 12.05 : **G. Avalishvili, M. Avalishvili, W. Müller.** The analysis of three-dimensional dynamical problems of thermoelasticity for piezoelectric solids with regard to magnetic field

**DISCUSSIONS THROUGHOUT THE DAY**