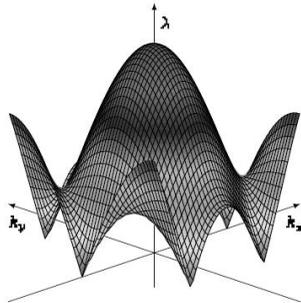


**MARIE CURIE'S INTERNATIONAL RESEARCH STAFF
EXCHANGE SCHEME (IRSES) IN THE 7TH EUROPEAN
FRAMEWORK PROGRAM**

Georgian National Academy of Sciences
Georgian Technical University
Andrea Razmadze Mathematical Institute
Muskhelishvili Institute of Computational Mathematics
Batumi Shota Rustaveli University
Steklov Institute of Mathematics
University of Debrecen
University of Palermo
University of Ostrava

P R O G R A M

**2nd Georgian - Czech – Italian – Hungarian
Conference and Workshop
Lie Groups, Differential Equations and
Geometry**



**Supported by Marie Curie International Research Staff
Exchange Scheme Grant
FP7-PEOPLE-2012-IRSES-317721
On the occasion of the 80th years Anniversary of
The Batumi Shota Rustaveli State University**

Batumi, September 9 - 18, 2015

Organizing and Program Committee

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(Organizer)

Venue

Batumi Shota Rustaveli State University

Faculty of Physics, Mathematics and Computer Sciences

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PROGRAM

9 - 15 September, 2015 Workshop Days

9 September Differential Equations, Discussion, Collaboration

10 September Calculus of Variations in Jet Bundles, Discussion, Collaboration

11 September Lie Groups and Lie Algebras, Discussion, Collaboration

12 - 13 September Excursions, Banquet

14 September Geometry and Physics, Discussion, Collaboration

15 September Further perspectives of collaboration in research, Education methods and young researchers' training: exchange of expertise

16 - 18 September, 2015

Conference on Lie Groups, Differential Equations and Geometry

16 September

09:30 – 10:00 Opening of the Conference, Greetings:

G. Tavamaishvili, Minister of Education of Adjara,

M. Khalvashi, Rector of Batumi State University

10:00 - 10:45 **A. Lashkhi** (GTU), On Locally Cyclic Modules

11:00 - 11:45 **J. Rogava** (TSU), **M. Tsiklauri** (EMC Laboratory, Missouri University of Sciences and Technology), Semi-discrete scheme for Generalization of a Nonlinear Kirkchoff-type Equation.

Lunch

14:00 - 14:30 **O. Kolouch** (Ostrava University), History and new irrationality results for infinite products of rationals.

14.30 - 15:00 **J. Rogava** (TSU), **D. Gulua** (GTU), The perturbation algorithm for realization multi-layer schemes.

15:30 - 16:00 **G. Khimshiashvili** (Ilia University), Elliptic boundary value problems for Cauchy-Riemann systems.

16:00 - 16:30 **G. Rakviashvili** (Ilia University), On cohomologies of biparabolic Lie subalgebras.

16:30 - 17:00 **D. Burchuladze** (GTU), On Mathematical Education in Georgia on XIX Century.

17 September

10:00 - 10:45 **O. Rossi**, Representations of the variational sequence.

11:00 - 11:45 **T. Kadeishvili** (RMI, GTU), Homotopy Algebras in Topology and Physics.

Lunch

14:00 - 14:30 **R. Malíková** (Ostrava University), The Helmholtz morphism.

14.30 - 15:00 **V. Ferdiánová** (Ostrava University), Modeling and visualization of curves in 4D.

15:30 - 16:00 **Ts. Sarajishvili** (BSU), About one application of methods of linear algebra.

16:00 - 16:30 **A. Figula** (Debrecen University), TBA

16:30 - 16:45 **G. Phartenadze** (BSU), Some type of a semi-lattice invariants counting algorithms and appropriate software.

16:45 - 17:00 **Ya. Diasamidze, O. Givradze** (BSU), Complete Semigroup of Binary Relations whose Set of Regular Elements is a Semigroup.

17:00 - 17:30 **T. Bokelavadze** (KSU), Lyndon's Free Abelian Groups.

18 September

10:00 - 10:45 **G. Falcone** (Palermo University), Complex periodic functions and toroidal groups.

11:00 - 11:45 **N. Devadze** (University of Santiago de Compostela), Using the internet-based surveys for tourism and hospitality research.

Lunch

14:00 - 14:30 **M. Donadze** (BSU), **N. Devadze** (University of Santiago de Compostela), Using the architecture with multi interfaces in the management of database of educational institution.

14.30 - 15:00 **E. Jintcharadze** (BSU), Potential development of Human - Computer Interaction.

15:30 - 16:00 **D. Devadze** (BSU), An Optimal Control Problem for Quasilinear Differential Equations with Bitsadze-Samarski Boundary Conditions.

16:00 - 16:30 **D. Devadze**, **V. Beridze** (BSU), Methods of Numerical Solution of Optimal Control Problems Based on the Pontryagin Maximum Principle.

16:30 - 16:50 **G. Lominashvili** (KSU), On the pseudo-maximal likelihood estimation of the parameters of an Burr distribution by grouped observations with censoring.

17:00 Closing of the Conference

20:00 **Banquet**

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