Saturday, October 2	
11.00-20.00	Registration, Check-in at Hotel "Palas"
Monday, October 4	
10.00-11.00	Opening ceremony
11.00-11.30	Coffee break
11.30-12.10	**Plenary Presentation** S.V. Garnov, V.V. Bukin Laser methods of generation of megavoltage terahertz fields *A.M.Prokhorov General Physics Institute of RAS, Moscow, Russia*
12.10-12.50	**Plenary Presentation** V. Veiko, E.Shakhno, M. Yarchuk, A. Ivanov Laser writing on thin Cr films under short pulse laser action at the resolution limit *St-Petersburg State University of Information Technologies, Mechanics and Optics, St-Petersburg, Russia*
12.50-13.30	**Plenary Presentation** S. Mikhailov Laser induced plasma arc technology in industrial application
13.30-14.10	**Plenary Presentation** Boris N. Chichkov Laser-based nanotechnologies for applications in photonics and bio medicine *Laser Zentrum Hannover e.V., Nanotechnology Department, Germany*
14.10-15.00	Lunch time
15.00-15.40	**Plenary Presentation** Milosevic Hranislav, Petkovic Dojcin Modeling of Interaction of the Low-Temperature Plasma Jet with Two-Phase Co-Flow in a Tube *Faculty of Science and Mathematics University in Pristina, Kosovska Mitrovica, Serbia*
15.40-16.20	**Plenary Presentation** A.A. Samokhin, N.N. Il'ichev Doppler acoustic monitoring of absorbing-liquid-surface-displacement during laser irradiation *A.M.Prokhorov General Physic Institute of RAS, Moscow, Russia*
16.20-17.00	Coffee break
17.00-17.40	**Plenary Presentation** V.I. Pustovoy Luminescent Silicon Quantum Dots *A.M.Prokhorov General Physic Institute of RAS, Moscow, Russia*
17.40-18.20	**Plenary Presentation**

	S.S. Alimpiev Laser mass spectrometry of liquids *A.M.Prokhorov General Physic Institute of RAS, Moscow, Russia*
20.00-22.00	Discussion

Tuesday, October 5

10.00-10.40	**Plenary Presentation** Yu.A. Teterin[1], M.V. Ryzhkov[2], A.Yu. Teterin[1], L. Vukcevic[3], K.I. Maslakov[1], K.E. Ivanov[1] Mathematical Modeling of Electronic Structure of Thorium Dioxide ThO2 in MO LCAO Approximation *[1]RRC "Kurchatov Institute", Moscow, Russia* *[2]Institute of Solid State Chemistry of the Ural Branch of RAS, Ekaterinburg, Russia* *[3]University of Montenegro, Podgorica, Montenegro*
10.40-11.20	**Plenary Presentation** Dmitry S. Ivanov Molecular Dynamics based study of solid targets response to a strong localized excitation *Fraunhofer Institute for Laser Technology, Department of Modeling and Simulation, Aachen, Germany*
11.20-12.00	**Plenary Presentation** Vladimir I. Mazhukin Dynamics of fast phase transitions in metals during pulsed laser action *Keldysh Institute of Applied Mathematics RAS, Russia, Moscow*
12.00-12.30	Coffee break
12.30-13.10	**Plenary Presentation** M.E. Povarnitsyn Simulation of femtosecond laser ablation of metals *Joint Institute for High Temperatures of RAS, Moscow, Russia*
13.10-13.50	**Plenary Presentation** O.S. Mazhorova, O.V. Shcheryca Analysis methods for numerical solution of heat - the diffusion of the Stefan problem *Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*
14.00-15.00	Lunch time
15.00-15.40	**Plenary Presentation** A. Savel'ev Fast electron bunches from femtosecond laser-plasma interaction *Lomonosov Moscow State University, Moscow, Russia*
15.40-16.20	**Plenary Presentation** Pavicevic Zarko Normality and curvilinear limits of meromorphic functions and applications *University of Montenegro, Podgorica, Montenegro*

16.20-17.00	**Plenary Presentation** Z. A. Chekanceva The politics of memory and history simulation *Institute of General History RAS, Moscow, Russia*
17.00-17.30	Coffee break
17.30-19.00	General debate on define theme: the interaction of scientific schools
20.00-22.00	Discussion
	Wednesday, October 6
10.00-17.00	Social program
	Thursday, October 7
10.00-10.40	**Plenary Presentation** A.Yu. Ivochkin[1], A.G. Kaptilny[2], A.A. Karabutov[1], D.M. Ksenofontov[1] Laser-induced phase transitions in an impedance interface between the metal: aluminum, mercury, lead *[1]Lomonosov Moscow State University, Moscow, Russia* *[2]Joint Institute for High Temperatures of RAS, Russia, Moscow*
10.40-11.20	**Plenary Presentation** S.M. Klimentov[1], P.A. Pivovarov[1], N. Fedorov[2], S. Guizard[2], V.I. Konov[1] Conical emission in focused beams: time, wavelength and spot-size dependences *[1]A.M.Prokhorov General Physic Institute of RAS, Moscow, Russia* *[2]Ecole Polytechnique, Palaiseau, France*
11.20-12.00	**Plenary Presentation** A.P.Shkurinov Role of multiphoton ionization by two-color laser pulse in the THz wave generation *M.V.Lomonosov Moscow State University, Moscow, Russia*
12.00-12.30	Coffee break
12.30-13.10	**Plenary Presentation** A.G. Kaptilny[1], A.A. Karabutov[2] Optothermodynamics near-and supercritical states of metals. Formulation of the problem. Methods of experimental study *[1]Joint Institute for High Temperatures of RAS, Moscow, Russia* *[2]Lomonosov Moscow State University, Moscow, Russia*
13.10-13.50	**Plenary Presentation** M.P. Galanin Some methods for solving operator equations *Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*
14.00-15.00	Lunch time
	Section: Mathematical Models and Modeling in laser-Plasma Processes

15.00-15.15	A.V. Shapranov, M.M. Demin Molecular dynamics modeling of picosecond ablation of metal foil *Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*
15.20-15.35	G.G. Elenin New numerical methods for molecular dymanics simulations *Lomonosov Moscow State University, Moscow, Russia*
15.40-15.55	S.A. Kozlov Theoretical methods of femtosecond optics *St.Petersburg State University of IT, Mechanics and Optics, St.Petersburg, Russia*
16.00-16.15	Rakovic Predrag Mathematical models and modeling in laser-plasma processe *Electrotechnical faculty, University of Montenegro, Podgorica, Montenegro*
16.20-16.35	Michalevic Nicola, Јовановић Слободан, Длабач Александар Efficiency of semiconductor detectors for the case when the source of the cuboid shape - brick geometry *University of Montenegro, Podgorica, Montenegro*
Section: Mathematical Modeling in Science Technologies	
15.00-16.15	Radovan Stojanovic[1], Marija Mirkovic[1] and O. Chizhova[2] VHDL based Detection of R-Wave in ECG Signal Using Wavelet Method *[1]University of Montenegro, Podgorica, Montenegro* *[2]Moscow University for the Humanities, Moscow, Russia*
15.20-15.35	T.V. Koroleva Assessment of profitability of the investment project in a wide range of risk and inflation *Moscow University for the Humanities, Moscow, Russia*
15.40-15.55	Andrej Skraba[1], Radovan Stojanovic[2], Nedeljko Lekic[2], Marjan Senegacnik[1] A Simulation Tool for Modeling Pollutant Dispersion for Educational Purposes *[1]University of Maribor, Faculty of Organizational Sciences, Slovenia* *[2]University of Montenegro, Faculty of Electrical Engineering, Montenegro*
16.00-16.15	O.G. Tsarkova Business game as a method of team development - psycho-physical training *.M.Prokhorov General Physic Institute of RAS, Moscow, Russia*
17.00-17.30	Coffee break
17.30-19.00	General debate on theme: Education in the XXI century
20.00-22.00	Discussion
Friday, October 8	
10.00-10.40	**Plenary Presentation** S.K. Vartapetov Laser and laser system for technology and medicine *A.M.Prokhorov General Physic Institute of RAS, Moscow, Russia*
10.40-11.20	**Plenary Presentation**

	V. Popov Laser-Informational Technologies for Biomedicine *Institute of Laser and Information Technologies RAS, Moscow, Russia*
11.20-12.00	**Plenary Presentation** A.A. Rukhadze *A.M.Prokhorov General Physics Institute of RAS, Moscow, Russia*
12.00-12.30	Coffee break
12.30-13.10	**Plenary Presentation** I.G. Lebo Mathematical Models&Modeling in: Laser-Plasma Processes; Science Technologies *Moscow state institute of radio engineering, electronics and automation, Moscow, Russia*
	Section: Mathematical Models and Modeling in laser-Plasma Processes
13.10-13.25	V. Dorodnitsyn Symmetry approach to finite-difference modeling *Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*
13.30-13.45	Stamatovic Biljana *University of Montenegro, Montenegro*
13.50-14.05	M.V. Mikhaylyuk *Institute for System Researches RAS, Moscow, Russia*
14.00-15.00	Lunch time
15.00-17.00	Discussion. Closing of Seminar.
17.00-....	Banquet
Saturday, October 9	
10.00-23.00	Departure

Poster Presentations
Monday, October 4 - Friday, October 8
A.A. Samokhin Parameterization and evaluation of scientific activity *A.M.Prokhorov General Physics Institute of RAS, Moscow, Russia*
O. Garanina A new technique for modeling the distribution of income to splurge on new cars *A.M.Prokhorov General Physics Institute of RAS, Moscow, Russia*

V.A.Gasilov[1], A.S.Boldarev[1], S.V.D'yachenko[1], E.L.Kartasheva[1], O.G.Olkhovskaya[1], S.N.Boldyrev[1], G.A.Bagdasarov[1], I.V.Gasilova[1], V.A.Shmyrov[2], J. Grunenwald[3], Th. Maillard[3]
Numerical technologies in 3d z-pinch simulations
[1]*Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*
[2]*MTU "STANKIN", Moscow, Russia*
[3]*CEG, Gramat, France*

V. Lipp, Dmitry S. Ivanov, Wolfgang Schulz
Atomistic-continuum modeling of short pulse laser melting of semiconductors
Fraunhofer Institute for Laser Technology, Department of Modeling and Simulation, Aachen, Germany

Jela Susic
The geometry of discrete groups and boundary properties
University of Montenegro

Nikolic Emilija, Nikolic Aleksandar
Communal noise influence on company Promonte GSM employees health
Faculty for physiotherapy – Igalo, DOO MONTINSPEKT - Podgorica, Montenegro

D. D. Radosavljevic[1], S. J. Trajkovic[2]
Object oriented programming in c + + (case study)
[1]*High Business Technical School, Uzice, Serbia*
[2]*Faculty of Economics, K. Mitrovica, Serbia*

Vukcevic Labud
Mathematical modeling of electronic structure of thorium tetrafluoride ThF4 in the relativistic approximation
University of Montenegro

A.V. Mazhukin
Building a computational grid using the method of dynamic adaptation
Keldysh Institute of Applied Mathematics RAS, Moscow, Russia

O.N. Koroleva[1], A.V. Mazhukin[2]
Modeling of propagation of optoacoustic signals generated by laser radiation in metals and semiconductors
[1]*Moscow University for the Humanities, Moscow, Russia*
[2]*Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*

T.V. Koroleva[1], O.N. Koroleva[1], A.V. Mazhukin[2]
Investigation of the effectiveness of two investment projects
[1]*Moscow University for the Humanities, Moscow, Russia*
[2]*Keldysh Institute of Applied Mathematics RAS, Moscow, Russia*

V.I.Mazhukin, P.V.Breslavsky
Mathematical modeling of two-dimensional hydrodynamic Stefan problems
Keldysh Institute for Applied Mathematics RAS, Moscow, Russia

Vukcevic Zdravko
Entropy of poetic language, P.P. Njegos
University of Montenegro, Podgorica, Montenegro

Vukoslavcevic Vanja
Some Necessary and Sufficient Conditions for Stability of Three-Layer Difference Schemes with Weights
University of Montenegro, Podgorica, Montenegro