



International Conference on Ultrafast Optical Science

UltrafastLight-2018

Conference program

1 October, Monday

08:30+

Registration

Plenary Session [Conference Hall]

09:30–10:00

Foreword

10:00–10:45

Vitaly Konov Laser nanoablation – a novel technique for precise structuring and functionalization of diamond

10:45–11:30

Stelios Tzortzakis Molded filaments and applications

11:30–12:00

Coffee Break

Section 1. Radiation and nuclear photonics at high fields.

[Conference Hall]
Session Chair: **V. Malka**

Section 3. Ultrafast laser nanofabrication and nanophotonics

[Conference Hall of QRPD]
Session Chair: **P. Melentiev**

Section 4. Femtosecond non-linear optics. Filamentation. High field THz generation.

[Hall of Columns]
Session Chair: **L. Seleznev**

12:00–12:30

B. Hegelich Quantum Effects in Extreme Fields - Ultrahigh Intensity Physics with Ultrafast Lasers

I. Staude Active and nonlinear semiconductor metasurface

A. Houard Improving supersonic flights with laser filamentation

12:30–13:00

N. Andreev High energy electrons in relativistic laser-plasma interaction

M. Tribelsky Non-steady effects in resonant scattering of ultrashort laser pulses

P. Polynkin Harmonic generation in mid-infrared laser filaments in gases

13:00–13:15

M. Starodubtsev Experimental studies on plasma physics and particle acceleration on PEARL facility

V. Zubyuk Controllable reflection of direct-gap semiconductor metasurfaces

O. Kosareva Nonlinear transparency window for mid-infrared femtosecond pulse in air

13:15–13:30

E. Smetanina Modeling femtosecond laser-induced electron dynamics in dielectrics by means of Optical Bloch Equations

13:30–15:00	Lunch		
	Section 1 [Conference Hall] Session Chair: P. Thirolf	Section 3 [Conference Hall of QRPD] Session Chair: V. Temnov	Section 4. [Hall of Columns] Session Chair: O. Kosareva
15:00–15:30	K. Spohr Harvesting Ultra-Fast Phenomena with the 10 PW Laser System at ELI-NP	G. Miyaji Controlling of plasmon damping on nonmetallic gratings excited with intense femtosecond laser pulses	A. Demircan Two-color Femtosecond Soliton Bound States
15:30–16:00	K. Ivanov Optimization of laser-plasma coupling at relativistic femtosecond interaction with solids for enhanced hot particles and high energy radiation production	A. Kovacevic Inducing LIPSS by multi-pass and cross-directional scanning of femtosecond beam over surface of thin metal films	L. Arantchouk Experimental study of guided discharge initiated by femtosecond laser filamentation having 10-100cm length and -ms scale duration filamentation of 10-100cm length and 1-ms duration
16:00–16:15	S. Pikuz X-ray radiation properties of plasma under interaction of femtosecond laser pulses with $\sim 10^{22}$ W/cm ² intensities	S. Kudryashov Manipulation of surface plasmon resonances: optical and material aspects	A. Zemlyanov Control of Multiple Filamentation of TW IR radiation propagating along an air path by means of a deformable mirror
16:15–16:30			D. Mokrousova The influence of air humidity on the ultrashort pulses filamentation
16:30–16:45	A. Korzhimanov Scalings of sheath-acceleration of protons driven by ultra-intense subpicosecond laser pulses	L. Nguyen Large-scale laser fabrication of anti-fouling Si surface nanosheet arrays via nanoplasmonic ablative self-organization in liquid CS ₂ tracked by sulfur dopant	D. Pushkarev Femtosecond laser superfilamentation under various focusing conditions

16:45–17:00	S. Bochkarev Stochastic electron heating in combined field of several overlapping laser pulses of picosecond duration	V. Koval Synthesis of periodical structures in Ag-doped sol-gel films by interference of picosecond laser pulses	N. Panov Third harmonic generation from regularized superfilament
17:00–17:30	Coffee Break		
	Section 1 [Conference Hall] Session Chair: A. Pukhov	Section 3 [Conference Hall of QRPD] Session Chair: S. Kudryashov	Section 4. [Hall of Columns] Session Chair: V. Fedorov
17:30–17:45	P. Sasorov Laser-plasma manipulation for achieving of femtosecond laser beam transportation of high performance	C. Rehbock Nanoparticles fabricated by pulsed laser ablation in liquids and their applications in biomedicine	S. Stremoukhov Quantum-mechanical elaboration for the description of low- and high-order harmonics generated in extended gas media
17:45–18:00			V. Gorelik Multifrequency Stimulated Raman Scattering in condensed media under ultrafast laser excitation
18:00–18:15	S. Rykovanov Narrowband Compton scattering sources at high laser intensities	V. Timoshenko Silicon-based nanomaterials for biophotonics	K. Dolgikh Suitable input conditions for femtosecond pulse tight focusing into dense medium
18:15–18:30			A. Shutov Three body attachment of electrons in humid air
18:30–18:45	I. Kostyukov Electron acceleration and gamma-ray emission at intense laser–solid interaction	D. Shuleiko Fabrication of silicon nanoparticles by pulsed laser ablation of porous silicon in liquids	Ya. Grudtsyn Four-photon absorption measurements in fused silica at 480 nm
18:45–19:00		I. Saraeva Laser ablation thresholds of metals and semiconductors in air and liquid media during fs/ps laser micromachining	I. Nikolaeva Geometric-optics correction of initial conditions for non-paraxial propagation equations

19:00–19:05	P. Korneev Magnetized plasma structures production by intense laser radiation	J. Sladek Periodic surface structuring of fused silica and ULE glass using femtosecond laser pulses	V. Pankratov Acoustic signal for femtosecond filament plasma grating characterization in air
19:05–19:10		Ya. Andreeva Single-shot laser-induced formation of nanoparticles from thin silver films submerged in various liquids	
19:10–19:15		M. Zhilnikova Laser-assisted generation of elongated Au nanoparticles and analysis of their morphology under pulsed irradiation in water and CaCl ₂ solutions	
19:15–19:20	V. Tcheremiskine Effect of the Pre-Plasma Density Profile on the Molybdenum K-Alpha X-Ray Emission Generated by an Intense Femtosecond Laser Pulse	A. Nastulyavichus Preparation of bimetallic nanoparticles by laser ablation	
19:20–19:25		A. Ivanova Fabrication of hybrid Si-Au nanoparticles by nanosecond laser ablation	
19:25–19:30		E. Ageev TBA	

2 October, Tuesday

	2 October, Tuesday			
08:30 +	Registration			
	Plenary Session [Conference Hall]			
09:15–10:00	Peter Thirolf Perspectives for high-power laser-driven nuclear physics			
10:00–10:45	Victor Malka Manipulating relativistic electrons with lasers: Towards compact plasma accelerators			
10:45–11:30	Dag Schmidt State of the art precision metrology with Ultra-low-noise Optical Frequency Combs			
11:30–12:00	Coffee Break			
	Section 1. Radiation and nuclear photonics at high fields. [Conference Hall] Session chair: K. Spohr	Section 2. Ultrafast phenomena in condensed matter and ionized gases [Hall of Columns] Session chair: C. Focsa	Section 3. Ultrafast laser nanofabrication and nanophotonics [Conference Hall of QRPD] Session chair: H. Giessen	Section 7. Femtosecond radiation in spectroscopy and optical frequency metrology [Hall of Building 11] Session chair: E. Fedorova
12:00–12:15	A. Pukhov Ultra-high energy density plasmas using nanostructured plasmas	V. Krainov High-Harmonic Generation of Atoms and Atomic Ions Near Cut off	A. Porfirev Design of diffractive optical elements for laser fabrication of u-shaped element arrays	M. Katsuragawa Tailored nonlinear optical frequency conversion - toward high resolution spectroscopy in the vacuum ultraviolet wavelength region
12:15–12:30			S. Khonina Tighter focus for ultrashort pulse vector light beams	
12:30–13:00	V. Bychenkov Laser-triggered charged particles acceleration for nuclear and gamma sources	A. Santagata Laser Induced Breakdown Spectroscopy Principles and Ultrashort Pulses' Effects	T. Omatsu Structured Materials by Ultrafast Vortex Pulses Illumination	M. Musha Optical frequency comb applications for large missions

13:00–13:15	A. Kim Dense e+e- plasma generation in extreme laser fields	A. Romanov High-Order Harmonic Generation by Multielectron Atoms in Intense Ultrashort Laser Fields	A. Kuchmizhak Ultrafast laser nanofabrication of advanced nanophotonic structures	A. Tomura Arbitrary optical waveform at 125THz repetition rate and its application to ultrafast phenomena
13:15–13:30		I. Khairulin Attosecond Pulse Formation in Active Medium of a Plasma-Based X-Ray Laser, Dressed by a Strong Optical Field: Analysis and Optimization		D. Tregubov Generation of ultrashort pulses by arbitrary manipulating amplitudes and phases
13:30–15:00	Lunch			
	Section 1. [Conference Hall] Session chair: I. Kostyukov	Section 2. [Hall of Columns] Session chair: A. Santagata	Section 3. [Conference Hall of QRPD] Session chair: F. Courvoisier	Section 7. [Hall of Building 11] Session chair: D. Tregubov
15:00–15:30	A. Andreev Efficient generation of attopulses at the interaction of intense laser radiation with the shaped targets	C. Focsa Plume Splitting and Oscillatory Behavior in Transient Plasmas Generated by High-Fluence Laser Ablation in Vacuum	Y. Nakata Nanostructures in lattice fabricated by interference laser processing technique	P. Maslowski Broadband absorption and dispersion spectroscopy with optical frequency comb
15:30–16:00	Student talks: G. Gospodinov; D. Gozhev; Y. Kochetkov; I. Mordvintsev; V. Prokudin; A. Sen'kevich; E. Filippov	V. Strelkov Role of Continuous Quasi-Stable States in High-Order Harmonic Generation. Resonance-Induced Modification of Harmonic Spectrum and Phase-Locking	F. Zacharatos Laser direct printing of nanomaterials for flexible electronic components and sensors	A. Matveev Direct Frequency Comb Two-photon Spectroscopy and The Proton Radius Puzzle

16:00–16:15		I. Babushkin Signatures of Attosecond-Scale Electron Dynamics in Terahertz and Higher Order Brunel Harmonics.	O. Vitrik Laser-structured polytetrafluoroethylene superhydrophobic surfaces as a basis of molecular transport system for sers-analyzers of ultra-small analyte concentrations	A. Voloshin Kerr combs and solitons from regular diode lasers
16:15–16:30		S. Kuznetsov Generation of Sub-Femtosecond Electron Bunches Upon Laser Pulse Propagation Through a Sharp Plasma Boundary		D. Shepelev Femtosecond Laser Synthesizer for Methane Reference Oscillator
16:30–16:45	Student talks: D.Gorlova; A.Martynenko; S.Makarov;	V. Grishkov Generation of Plasma Waves by a Femtosecond Pulse of Focused Laser Radiation	P. Danilov High-precision direct laser processing of plasmonic films by structured laser beam	I. Zalivako Yb:KYW frequency comb for precision spectroscopy of 1s-2s transition in He+
16:45–17:00	S.Ryazantsev; S.Barzegar	K. Vagin High-Frequency Longitudinal Waves in Plasma Generated by Multiphoton Ionization of Gas Atoms by a Short Laser Pulse	S. Pokrovskii Femtosecond laser fabrication of topological structures in high-Tc superconducting composites	E. Fedorova Characterization of 1.14 m clock laser by Ti:Sa femtosecond frequency comb
17:00–17:15		T. Mamontova Dispersion Law and Damping of Electronic High-Frequency Waves in Plasma, Formed by the Tunnel Ionization of Atoms		
17:00–17:30	Coffee Break			

	Section 1.	Section 2. [Hall of Columns] Session chair: S. Uryupin	Section 3. [Conference Hall of QRPD] Session chair: D. Ivanov	
17:30–18:00	Posters	A. Popov New Approach To the Problem of Thz Generation in High-Intensity Laser Field	B. Gakovic Modification of Ti/Zr multilayer by femtosecond laser pulses	
18:00–18:15		A. Savel'ev Self-Induced Transparency of Intense Few-Cycle Terahertz Pulses in N-Doped Silicon	N. Polushkin Phase-change magnetic memory by ultrafast laser patterning of Fe-Al alloys	
18:15–18:30			A. Afanasiev The effect of delay time between the pulses of different frequencies in surface nanopatterning by two-colored femtosecond pulses	
18:30–18:45			I. Oladyshkin Role of Surface Plasmons in Laser-Induced Thz Generation From Metals	D. Ganin Heterochain thermostable polymers for the formation of optical elements
18:45–18:50				Ya. Golubev The dynamics of laser ablation thresholds of aluminum and steel during double-pulse laser action
18:50–18:55				N. Smirnov One-pulse micro-ablation of steel by ultrashort laser pulses of variable duration
18:55–19:00	M. Moskvin Laser-induced coloration of metals surface			

19:00-19:05		A. Frolov Dipole Structure of Terahertz Radiation in the Interaction of a Laser Pulse with Clusters	R. Yatsuk Laser-assisted modification of Ti-6Al-4V titanium alloy surface for implantology applications
19:05-19:10			S. Umanskaya Femtosecond laser nanopatterning of thin films at radial and azimuthal polarizations
19:10-19:15			
19:15-19:30		S. Bezhanov Nonlinear Transmission and Reflection of a Strong Terahertz Pulse by a Metal Film	
19:30-19:35		N. Gnezdovskaya Generation and Amplification of Thz Radiation in Plasma Channel Formed in Gas by High-Intensity Laser Field	

3 October, Wednesday

Plenary Session [Conference Hall]

09:15–10:00 **Serim Ilday** Ultrafast laser-driven self-assembly and self-organization far from equilibrium

10:00–10:45 **Harald Giessen** Marriage of nano- and micro-optics

10:45–11:30 **Hong-Bo Sun** Optoelectronic applications of ultrafast lasers

11:30–12:00 **Coffee Break**

Section 2. Ultrafast phenomena in condensed matter and ionized gases.
[Hall of Columns]
Session chair: **E. Gurevich**

Section 3. Ultrafast laser nanofabrication and nanophotonics
[Conference Hall of QRPD]
Session chair: **G. Miyaji**

Section 4. Femtosecond non-linear optics. Filamentation
[Conference Hall]
Session chair: **A. Zemlyanov**

12:00–12:30 **B. Rethfeld** Relaxation Dynamics of Nonequilibrium Electrons in Laser-Excited Solids

P. Melentiev Nanoscale spatial and femtoscale temporal characterization of laser pulses

A. Shkurinov Terahertz wave generation from liquid gas

12:30–12:45 **V. Gruzdev** Cycle-Averaged Effects in Ultrafast High-Intensity Laser Interaction with Electrons of Wide-Band-Gap Solids: the Approximation of Low Collision Rate

V. Temnov Ultrafast magneto-elastic interactions at the nano-scale

V. Fedorov THz generation by two-color filamentation at different wavelengths

12:45–13:00

P. Sverbil Second and third harmonics generation in photonic crystals under femtosecond laser excitation

13:00–13:15

S. Ashitkov The Behavior of Metals Under Ultrafast Loading Driven by Femtosecond Laser

A. Musorin Ultrafast dynamics of magneto-optical effects in nanostructured media with artificial dispersion

A. Garmatina Enhancing x-ray generation under interaction of chirped pulse induced filament with solids placed in air

13:15–13:30	S. Romashevskiy Layer-By-Layer Modification of Thin-Film Metal–Semiconductor Multilayers with Ultrashort Laser Pulses	P. Terekhin The role of surface plasmon-polaritons in laser processing and heating of solids	A. Shugurov Nonellipsometric electro-optic sampling of terahertz pulses in GaAs
13:30–15:00	Lunch		
	Section 2. [Hall of Columns] Session chair: V. Gruzdev	Section 3. [Conference Hall of QRPD] Session chair: G. Tsibidis	Section 4. [Conference Hall] Session chair: A. Shkurinov
15:00–15:15	N. Inogamov Laser Action on Bulk or Thin Targets: Duration Effects	F. Courvoisier Processing dielectrics with controlled cracks from elliptical Bessel beams	E. Mareev Photoacoustic imaging of femtosecond filament in water
15:15–15:30			E. Mareev Nonlinear optical properties of CO ₂ and Xe in sub- and supercritical states: anomalous behavior of nonlinear refraction index and supercontinuum generation
15:30–15:45	E. Gurevich Role of Hydrodynamic Mechanisms in Formation of Laser-Induced Periodic Surface Structures	V. Veiko 3D-laser densification of porous glass: mechanisms and applications	E. Mitina Acoustic diagnostics of multiple and superfilamentation under different crossing angles between separate filaments
15:45–16:00			A. Murzanev Ionization and explosion of a spherical water droplet in air by femtosecond laser radiation at intensities of the order of magnitude achieved at laser filamentation

16:00–16:15	K. Migdal Transport and Optical Properties of Noble Metals At Two-Temperature State	N. Sanner Ultrashort laser ablation of dielectrics	A. Murzanev The laser plasma filament in the air visualization by the nonlinear phase contrast imaging using Kerr nonlinearity of the fused silica
16:15–16:30			S. Sychugin Quasistatic fields propagating ahead of ultrashort laser pulses in electro-optic crystals
16:30–16:45	K. Hlinomaz Numerical Modeling of Energy Relaxation in Molybdenum Thin Films on Soda-Lime Glass Upon Irradiation by Picosecond Laser Pulses	I. Moiseev Writing of crystalline tracks in glass by Laguerre-Gaussian femtosecond laser beam	L. Golovan Nonlinear-Optical Anisotropy in Silicon Nanowire Ensembles
16:45–17:00		M. Smayev Femtosecond laser direct writing of depressed cladding waveguide in tellurite glass	E. Martynovich Highly nonlinear volumetric photographic fluorescent materials
17:00–17:15		R. Zakoldaev 3D-laser densification of porous glass: mechanisms and possible applications	I. Laryushin Generation of terahertz radiation by two-color femtosecond ionizing pulses with arbitrary polarizations of components
17:00–17:30	Coffee Break		

	Section 2. [Hall of Columns] Session chair: S. Bezhanov	Section 3. [Conference Hall of QRPD] Session chair: I. Staude
17:30–17:45	L. Mazov Femtosecond Relaxation Dynamics of Hot Electrons in High Temperature Cuprate Superconductors	
17:45–18:00		G. Tsibidis Periodic Structure Formation on Dielectrics After Irradiation with ultrashort Pulsed Lasers
18:00–18:15	P. Kartsev Evolution of Nonequilibrium State of the High-Temperature Superconductor After Femtosecond Laser Pulse, Studied with Numerical Simulation	
18:15–18:30	S. Gudkov The Role of Nanoparticles in Optical Breakdown of Liquids: Impact on the Main Parameters of Plasma and Sound, Values of Radiation-Chemical Yield of Stable and Radical Photolysis Products	D. Ivanov Modelling of short laser pulse nanostructuring of metals in different media
18:30–18:45		
18:45–19:00		N. Busleev Numerical modeling of electromagnetic response of Si nanosheets covered by plasmonic layers

4 October, Thursday

Plenary Session [Conference Hall]

09:15– 10:00 **Majed Chergui** Ultrafast X-ray and optical studies of materials and molecular system

10:00– 10:45 **Uwe Morgner** Parametric Amplification of Few-cycle Optical Pulses

10:45– 11:15 **Coffee Break**

	Section 1. Radiation and nuclear photonics at high fields. [Conference Hall] Session chair: B. Hegelich	Section 2. Ultrafast phenomena in condensed matter and ionized gases [Hall of Columns] Session chair: M. Garcia	Section 5. Femtosecond laser photobiology and photochemistry. [Conference Hall of QRPD]	Section 6. Physics and technology of ultrashort laser pulses and innovative femtosecond laser technology. [Physical Hall] Session chair: V. Chvykov
11:15– 11:45	T. Ozaki High-field effects in autoionizing states – high-order harmonics and the four-step model	E. Perlin Nonlinear Absorption of Femtosecond Light Pulses Under Conditions of Multiphoton Resonances in Bulk Crystals and Nanostructures	H. Lemmetyinen Photoinduced electron transfer via exciplex formation in diazaporphyrin-porphyrin and porphyrin-pyrene dyads	E. Khazanov , Compression after Compressor Approach (CafCA)
11:45– 12:15	A. Brantov Thz and gamma-ray generation from laser-plasma interaction	V. Zhukov Peculiarities of Interaction of Doughnut-Shaped Laser Pulses with Transparent Materials	A. Douhal Deciphering the ultrafast dynamics in perovskite/QDs hybrid films	Ö. Ilday Nonlinear thermodynamics perspective of mode-locking

12:15- 12:45	A. Fedotov Longitudinal field generation and ion acceleration in undercritical plasmas enhanced by radiation friction	I. Pavlichenko Nanograting Structures in Transparent Dielectric At the Nonlinear Stage of Plasma-Resonance Instability	N. Tkachenko Photoinduced charge separation at organicsemiconductor interface	I. Yakovlev Stretchers and compressors of chirped pulses – key elements of ultra-high-power laser complexes
12:45- 13:00	S.Chaurasia TBA	R. Stoian Volume Nanostructuring with Spatio-Temporally Sculpted Laser Pulses	E.Glebov Photophysics and Photochemistry of Platinum Group Metals Complexes	V. Molchanov High-resolution acousto-optic ultrafast pulse shaping
13:00- 13:15	N.Naumova TBA		A.Mereshchenko Exited-State Dynamics Of [CuCl4]2- And [CuBr4]2- Complexes In Solution	
13:15- 13:30	V. Kulagin Intense Terahertz and Infrared Radiation from Laser Pulse Interaction with Mass-Limited and Gas Targets		V.Mikhailova The Effect Of Solvent Relaxation Time Constants On Free Energy Gap Law For Ultrafast Charge Recombination Following Photoinduced Charge Separation	
13:30- 15:00	Lunch			

	Section 1. [Conference Hall] Session chair: V. Bychenkov	Section 2. [Hall of Columns] Session chair: E. Perlin	Section 5. [Conference Hall of QRPD]	Section 6. [Physical Hall] Session chair: V. Molchanov
15:00–15:15	I. Tsymbalov Electrons ejection and acceleration in plasma waves in the relativistic laser-plasma of solid targets	M. Garcia Nonthermal Phase Transitions in Silicon and Antimony: Scaling Up Ab-Initio Atomistic Simulations	E. Vauthey Ultrafast photoinduced symmetry-breaking charge transfer	V. Chvykov Several Technological Approaches for New Generation of Ultra-High Peak and Average Power Ti:Sapphire Laser Systems.
15:15–15:30	O. Vais Laser pulse diagnostics via direct particle acceleration			
15:30–15:45	E. Efimenko Particle trajectories in a pinch regime produced by a petawatt level e-dipole wave	Ö. Ilday Ablation-Cooled Material Removal with Ultrafast Bursts of Pulses	P. Sherin Molecular UV-filters of the human eye lens: the diversity of the ultrafast mechanisms of the excited state deactivation	M. Smrz kW-class sub-1-picosecond lasers followed by efficient UV and mid-IR frequency conversion for laser-matter interaction research
15:45–16:00	I. Metelski Harmonic generation in inhomogeneous relativistic plasma			
16:00–16:15	A. Bashinov QED cascade with multipetawatt-class lasers: a road to attosecond-scale highly directed GeV gamma-ray sources	C. Liberatore Large Beam Effect in Structuring of Si Surface with Ultrashort Laser Pulse	D. Poydashev Ultrafast Dynamics Induced By Femtosecond Laser Radiation In Mixed Molecular Clusters	F. Potemkin Recent progress in mid-IR(4-5 μm) solid-state femtosecond amplifiers based on Fe ²⁺ :ZnSe optically pumped by 3- μm laser

16:15–16:30		E. Migal Wavelength Scaling of Deposited Energy Density Under Femtosecond Microstructuring in Bulk Fused Silica	A.Shushakov Primary Processes In Photophysics And Photochemistry Of Diazide Pt(IV) Complexes Prospective For Anti-Cancer Photodynamic Therapy	
16:30–16:45			R.Pishchalnikov Temperature Dependence Of The Water Oh-Stretch Band In The Off-Resonant Raman Spectroscopy: A Computational Approach	I. Mukhin , Generation of high intensity few-cycle femtosecond pulses from high power picosecond laser
16:45–17:00			R.Pishchalnikov Energy Transfer And Trapping In Photosystem I From Arthrospira Platensis	V. Morozov , High-peak-power diode-pumped picoseconds lasers
17:00–17:30	Coffee Break			
	Section 5. [Conference Hall of QRPD]		Section 6. [Physical Hall] Session chair: P. Kostryukov	
17:30–17:45	I.Pozdnyakov Ultrafast Processes In Photophysics Of Natural Fulvic Acids		Yu. Maslova Towards chaotic generators of ultrashort light pulses	
17:45–18:00	T.Mikhailova Dynamic Solvent Effect And Ultrafast Charge Recombination In Excited Donor-Acceptor Complexes		S. Filatova Time and spectral pulse dynamics of a 2- μm hybrid laser during the amplification by holmium-doped fiber amplifier	

18:00-18:15	I. Yermolenko One-Dimensional Optimization Of The Calculation of The Probability Of Electron Transitions Taking Into Account One High-Frequency Vibrational Mode	N. Dyachkov Energy density in a collapsing electromagnetic wave.
18:15-18:30		A. Lyubimov Dielectric diffraction gratings for laser pulse compression
18:30-18:45		E. Ivanova Subpicosecond X-ray laser at $\lambda = 41.8$ nm in a plasma formed by the interaction of a femtosecond pump laser with a xenon cluster jet.
18:45-19:00		A. Okhrimchuk The deformation wave as a factor that controls direct laser writing.

