

June, 29

9:30 – 10:30	Registration
	HALL A
10:30 – 11:00	Opening Session. Chair: Alexander Litvak
	PLENARY SESSION. Chair: Olga Kocharovskaya
11:00 – 11:30	<i>Yakir Aharonov</i> (Tel-Aviv University, Israel). “Weak Measurements and Weak Values of Quantum Systems”
11:30 – 12:00	<i>Mark G. Raizen</i> (University of Texas at Austin, USA). “Many-body quantum control of a degenerate Bose gas”
12:00 – 12:30	<i>Alexander Sergeev</i> (Institute of Applied Physics RAS, Russia). “Control of attosecond pulse production from excited molecules”
12:30 – 13:30	Lunch

	HALL A	
	PLENARY SESSION. Chair: Alexander Sergeev	
13:30 – 14:00	<i>J. Beugnon, M.P.A. Jones, J. Dingjan, B. Darquie, G. Messin, A. Browaeys & Philippe Grangier</i> (Institute d’Optique, France). “Single photons for quantum information”	
14:00 – 14:30	<i>Alexander Apolonski, E. Fill, L. Veisz, A. Fernandez, Ch. Gohle, J. Rauschenberger, S. Naumov, V. Pervak, Th. Udem, Th.W. Haensch, F. Krausz</i> (Ludwig-Maximilians-Universitaet Muenchen, Garching, Germany). “Progress in generation of few-fs to sub-fs light and electron pulses at MHz repetition rate”	
14:30 – 15:00	<i>Francesco De Martini</i> (University of Rome “La Sapienza”, Italy). “High Gain Quantum Injected Parametric Amplification, Non local amplified EPR and Phase-Covariant Cloning”	
15:00 – 15:30	Coffee Break	
15:30 – 16:50	INVITED TOPICAL SESSIONS	
	HALL A	HALL B
	Mini-Symposium on Attosecond Physics 1 Chairs: Mikhail Ryabikin, Alexei Sokolov	Coherent and Nonlinear Optics 1 Chair: Yevgeny Radeonychev
15:30 – 15:50	<i>Alexei V. Sokolov, Andrea Burzo, Jiahui Peng, Dmitry Pestov, Xi Wang, and Miaochan Zhi</i> (Texas A&M University, USA). “Broadband coherent light generation in Raman-active gasses and solids, with potential for subfemtosecond pulse synthesis”	<i>Sharly Fleischer, Ilya Averbukh, and Yehiam Prior</i> (Weizmann Institute, Israel). “Isotope-selective molecular alignment”
15:50 – 16:10	<i>Masayuki Katsuragawa</i> (University of Electro-Communications, Tokyo, Japan). “Ultrashort pulse generation by Fourier synthesis of Raman sidebands; Toward attosecond regime”	<i>Vitaly V. Samartsev, V.S. Lobkov, K.M. Salikhov, G.M. Safiullin, and V.A. Zuikov</i> (Zavoisky Kazan Physical-Technical Institute of RAS, Kazan, Russia). “Femtosecond stimulated photon echo in the dye-doped polymer film and a possibility of the coherent optical cooling via phonon side-band”
16:10 – 16:30	<i>Matthias Wollenhaupt, T. Bayer, A. Präkelt, C. Sarpe-Tudoran and T. Baumert</i> (Universitat Kassel Fachbereich Physik / Experimentalphysik III, Kassel, Germany). “Efficient strong field coherent control with	<i>Rustem N. Shakhmuratov and J. Odeurs</i> (Kazan Physical Technical Institute, Russian Academy of Science, Russia). “Where is the energy of slow light stored?”

16:30 – 16:50	shaped femtosecond laser pulses: ultrafast, selective and tunable” <i>Gennady M. Fraiman</i> (Institute of Applied Physics RAS, Russia). “Coherent Collision Effects in Ultra High Illuminated Plasmas”	<i>Maria Erukhimova, M.Tokman</i> (Institute of Applied Physics RAS, Russia). “Classical analogs of LWI and Manley – Rowe relations“
17:00 – 20:00	Cultural Program: Excursion to Kremlin and/or International A. Sakharov Festival of Art	

June, 30

8:00 – 9:00	Registration	
	HALL A	
9:00 – 9:30	PLENARY SESSION. Chair: Mark G. Raizen <i>Jakob Yngvason</i> (University of Vienna, Austria). “BEC in Trapped Gases and Optical Lattices – a Review of Rigorous Results”	
9:30 – 10:00	<i>Jacob Sherson, Hanna Krauter, Rasmus K. Olsson, Brian Julsgaard, Klemens Hammerer, Ignacio Cirac, and Eugene S. Polzik</i> (Niels Bohr Institute and Copenhagen University, DK). “Quantum teleportation between two mesoscopic objects: a photonic pulse and an atomic ensemble”	
10:00 – 10:30	<i>Mikhail Fedorov</i> (General Physics Institute, Russian Academy of Science, Russia). “Entanglement in continuous spectra and wave packet structures”	
10:30 – 10:50	Coffee Break	
10:50 – 12:30	INVITED TOPICAL SESSIONS	
	HALL A	HALL B
10:50 – 11:10	Mini-Symposium on Attosecond Physics 2 Chairs: Mikhail Ryabikin, Alexei Sokolov <i>Wilhelm Becker, X. Liu, C. Figueira de Morisson Faria, and P.B. Corkum</i> (Max Born Institute, Berlin). “Attosecond electron thermalization by laser-driven electron recollision in atoms”	Semiconductor Optics 1 Chair: Alexey Belyanin <i>V.Ya. Aleshkin, A.A. Belyanin, A.A. Dubinov, V.V. Kocharovsky, Vladimir V. Kocharovsky, M.O. Scully</i> (Institute of Applied Physics RAS, Russia). “Intracavity nonlinear mixing in dual-wavelength laser diodes for mid/far-infrared generation”
11:10 – 11:30	<i>Andre D. Bandrauk, S. Barmaki, G. Lagmago Kamta</i> (Universite de Sherbrooke, Quebec, Canada). “Molecular Harmonic Generation at Large Internuclear Distances”	<i>Ilya S. Tarasov, N.A. Pikhtin, S.O. Slipchenko, D.A. Vinokurov, Z.N. Sokolova</i> (A.F. Ioffe Physico-Technical Institute RAS, St.-Petersburg, Russia). “High efficiency high power semiconductor lasers (800 – 1100 nm) based on separate confinement heterostructures with low internal optical loss”
11:30 – 11:50	<i>M.Yu. Emelin, Mikhail Yu. Ryabikin, and A.M. Sergeev</i> (Institute of Applied Physics RAS, Nizhny Novgorod, Russia). “Using transient enhancement of high harmonic generation in expanding molecules for monitoring nuclear vibration”	<i>Vladimir Ya. Aleshkin, A.V. Antonov, L.V. Gavrilenko, V.I. Gavrilenko</i> (Institute for Physics of Microstructures, Nizhny Novgorod, Russia). “Fano resonances in impurity photocurrent spectra of bulk semiconductors and quantum wells doped by shallow donors”
11:50 – 12:10	<i>Zhiyi Wei, Yanying Zhao, Hainian Han, Peng Wang, Jiangeng Zhu</i> (Institute of Physics, Chinese Academy of Sciences, China). “Carrier-envelope phase control of few cycles laser pulse by difference-frequency generation”	<i>Andrey V. Muravjov, M.V. Dolguikh, R.E. Peale</i> (University of Central Florida, Orlando, USA). “Amplification of terahertz radiation in p-type delta-doped semiconductor films” <i>A.A. Andronov, Yu.N. Nozdrin, Alexander</i>

12:10 – 12:30	<u>Vladimir B. Gildenburg and N.V. Vvedenskii</u> (Institute of Applied Physics RAS, Russia). “Generation of Terahertz Radiation via ultrashort-pulse-induced gas breakdown”	<u>Okomel'kov, A.A. Babenko, D.G. Ikusov, R.N. Smirnov and V.S. Varavin</u> (Institute for Physics of Microstructures, RAS, Nizhny Novgorod, Russia). “Superluminescence from optically pumped Cd _x Hg _{1-x} Te heterostructures on GaAs and Si substrates”
12:30 – 13:30	Lunch	

13:30 – 14:50	INVITED TOPICAL SESSIONS	
	HALL A	HALL B
	Coherent and Nonlinear Optics 2 Chair: Rustem Shakhmurov	Semiconductor Optics 2 Chair: Vladimir Kocharovskiy
13:30 – 13:50	<u>Andrew M. C. Dawes, Lucas Illing, Susan M. Clark, and Daniel J. Gauthier</u> (Duke University, USA). “Recent progress in low-light switching via optical patterns”	<u>Alexander A. Andronov, E.P. Dodin, Yu.N. Nozdrin, D.I. Zinchenko</u> (Institute for Physics of Microstructures, RAS, Nizhny Novgorod, Russia). “Transport properties of narrow minigap superlattices and the design of THz Bloch oscillator”
13:50 – 14:10	<u>Andrei I. Maimistov, Ildar R. Gabitov, Elena V. Kazantseva</u> (Moscow Engineering Physics Institute, Moscow, Russia). “Three wave interaction in negative refractive index materials with quadratic nonlinearity”	<u>Alexei Belyanin</u> (Texas A&M University, USA). “Nonlinear dynamics of quantum cascade lasers: Raman effect, nonlinear frequency conversion, and ultrashort pulse generation”
14:10 – 14:30	<u>Mikhail Tokman, M. Erukhimova, A. Kryachko, Y. Radeonychev, D. Sazanov</u> (Institute of Applied Physics RAS, Nizhny Novgorod, Russia). “The analogs of quantum coherent effects in classical media and systems with collective degrees of freedom”	<u>Valery N. Shastin, R.Kh. Zhukavin, J.N. Hovenier, T.O. Klaassen, S.G. Pavlov, H.-W. Hübers</u> (Institute for Physics of Microstructures RAS, Nizhny Novgorod, Russia). “Terahertz raman laser on shallow donors in silicon”
14:30 – 14:50	<u>Peter A. Volkov, M.A. Efremov, and M.V. Fedorov</u> (A.M. Prokhorov General Physics Institute RAS, Moscow, Russia). “Modulation of atomic Rydberg states by a resonant microwave field”	<u>Vasily V. Bel'kov, S.D. Ganichev</u> (A.F. Ioffe Physical-Technical Institute, St. Petersburg, Russia). “Terahertz Radiation Induced Spin Photocurrents in Quantum Wells”
14:50 – 15:20	Alexander Litvak, Institute of Applied Physics RAS, Russia Institute of Applied Physics RAS: Major Directions of Research	
15:20 – 16:50	Lab tour at the Institute of Applied Physics RAS	
16:50 – 17:10	Coffee Break	
17:10 – 20:00	Cultural Program: Bus Excursion in Nizhny Novgorod and/or International A. Sakharov Festival of Art	
21:00	Boarding	

July, 1

8:00 – 9:00	Registration		
9:00 – 10:00	Breakfast		
10:00 – 10:30	Boat departure from Nizhny Novgorod		
	HALL A		
	PLENARY SESSION. Chair: Marlan O. Scully		
10:30 – 11:00	<u>Alexander L. Fetter</u> (Stanford University, USA). “Rapidly rotating BEC”		
11:00 – 11:30	<u>John M. Doyle</u> (MIT, USA). “Cold Molecules for Quantum Information”		
11:40 – 13:00	INVITED TOPICAL SESSIONS		
	HALL A	HALL B	HALL C

	BEC Chair: Vitaly Kocharovskiy	Quantum Information 1 Chair: Philip Hemmer	8th AFOSR Workshop on Quantum Nucleonics and Isomers 1 Chairs: James J. Carroll and Anne Matsuura
11:40 – 12:00	<i>Rainhold Walser</i> (Abteilung Quantenphysik, University of Ulm, Germany). “Exploring the correspondence principle with spinor condensates: from quantum Bloch oscillations to classical Bogoliubov excitations”	<i>M. Suhail Zubairy</i> (Texas A&M University, USA). “Quantum lithography and microscopy”	<i>Forrest J. Agee, Anne Matsuura</i> (Air Force Office of Scientific Research, USA). “Review of Challenges and Opportunities in Quantum Nucleonics”
12:00 – 12:20	<i>Yuri Lozovik</i> (Institute of Spectroscopy, Troitsk, Russia). “Bose condensation and superfluid phases in low-dimensional systems”	<i>Philippe Tamarat, Charles M. Santori, Philip R. Hemmer, Fedor Jelezko, and Jörg Wrachtrup</i> (Physikalisches Institut, Universität Stuttgart, Germany). “Raman excited spin coherence in single defect centers in diamond”	<i>Lev Rivlin</i> (MIREA Technical University, Moscow, Russia). “On stimulated radiative decay of metastable states”
12:20 – 12:40	<i>Anatoly A. Svidzinsky and Marlan O. Scully</i> (Texas A&M University, USA). “Hybrid approach to fluctuations in mesoscopic interacting Bose – Einstein condensate”	<i>Zameer Hasan</i> (Temple University – Philadelphia, USA). “Arrays of rare earth doped quantum dots as hardware for quantum computers”	<i>Thomas J. Buervenich, Joerg Evers, and Christoph H. Keitel</i> (Max Planck Institute, Germany). “Direct interaction of nuclei with x-ray laser pulses”
12:40 – 13:00	<i>Eugeny D. Trifonov, Yu.A. Avetisyan</i> (A.I. Herzen State University of Russia, St.-Petersburg). “On the theory of superradiant scattering from bose-einstein condensate of dilute gas”	<i>Susanne F. Yelin, R. Cote</i> (University Connecticut, USA). “Quantum computing using dipolar molecules”	<i>Rustem N. Shakhmuratov, J. Odeurs, S. Gheysen, Y. Rostovtsev, O Kocharovskaya, P. Mandel</i> (Kazan Physical Technical Institute, Russian Academy of Science, Russia). “Level mixing induced transparency for gamma radiation”
13:00 – 14:00	Lunch		

	HALL A		
	PLENARY SESSION. Chair: Andre Mysirowitz		
14:00 – 14:30	<i>Vitaly Kocharovskiy and Vladimir Kocharovskiy</i> (Institute of Applied Physics RAS, Russia). “Theorem on non-polynomial averages in statistical physics and nonequilibrium BEC”		
14:30 – 15:00	<i>Leonid Butov</i> (UC at San Diego, USA). “Phenomena in cold exciton gases”		
15:15 – 17:00	Excursion to Makarievsky Monastery		
17:00 – 17:20	Coffee Break		
	HALL A		
	PLENARY SESSION. Chair: Yury Kagan		
17:20 – 17:50	<i>Xiaoshi Zhang, Amy Lytle, Oren Cohen, Ariel Paul, Henry Kapteyn, and Margaret Murnane</i> (Department of Physics and JILA, University of Colorado and NIST, Boulder, CO, USA). “Quasi-phase matching of high-order harmonic generation”		
17:50 – 18:20	<i>Mikhail Lukin</i> (Harvard University, USA). “Quantum control of single photon and single spins”		

18:30 – 20:10	INVITED TOPICAL SESSIONS		
	HALL A	HALL B	HALL C
	Excitons Chair: Leonid Butov	Quantum Information 2 Chair: Mikhail Lukin	8th AFOSR Workshop on Quantum Nucleonics and Isomers 2

18:30 – 18:50	<i>Steven T. Cundiff</i> (National Institute of Standards & Technology, Boulder, USA). "Quantum control of carriers in semiconductors for carrier-envelope phase detection"	<i>Philip Hemmer, Steven Prawer, Jerog Wrachtrup, Fedor Jelezko, Neil Manson, and Matthew Sellars</i> (Texas A&M University, College Station, Texas, USA). "Solid state quantum computing"	Chairs: James J. Carroll and Anne Matsuura <i>Nino R. Pereira, G. Merkel, and M. Litz</i> (Ecopu Ise, Inc., Springfield, USA). "On energy storage and power production with isomers"
18:50 – 19:10	<i>Alexei Ivanov</i> (Gardiff University, Great Britain). "Acoustically induced superlattices: from photons and electrons to excitons and polaritons"	<i>Ilya Fushman, Jelena Vuckovic</i> (Stanford University, USA). "Photonic Crystals for Quantum and Classical Information Processing"	<i>Vitaly V. Samartsev and A.A. Kalachev</i> (Kazan Phys.-Tech. Institute, Russian Academy of Science, Russia). "Multiple cluster superfluorescence of nuclear molecules"
19:10 – 19:30	<i>Hailin Wang</i> (University of Oregon, USA). "Control of nonlinear optical response from electron spin coherence in quantum wells"	<i>Daniel Rohrlach, Yakov Neiman, Yonathan Japha, Ron Folman</i> (Ben-Gurion University, Beer-Sheva, Israel). "Chips for quantum optics and interference swapping in scattering from a nonlocal quantum target"	<i>Zameer Hasan, A. Konjhodzic, F. Vagizov, E. Alp, W. Sturhahn, and J. Carroll</i> . "Nuclear Forward Scattering (NFS) of Atomically Tailored Materials for Coherent Control of Nuclear States"
19:30 – 19:50	<i>Makoto Kuwata-Gonokami</i> (University of Tokyo, Japan). "Optical manipulation of cold excitons in a quantum degenerate regime"	<i>Pierre Pillet</i> (Laboratoire Aimé Cotton, CNRS, Orsay cedex, France). "Dipole blockade in high-resolution laser excitation of Rydberg atoms"	<i>Petr Anisimov, Yu. Rostovtsev, O. Kocharovskaya</i> (Texas A&M University, USA). "A new technique for Line Narrowing in Mossbauer Spectroscopy"
19:50 – 20:10	<i>Mats-Eric Pistol, J. Persson, C. Ellström, V. Zwiller, L. Samuelson, W. Seifert</i> (Lund University, Lund, Sweden). "Correlation spectroscopy of individual quantum dots"	<i>O.S. Mishina, Dmitriy V. Kupriyanov, J.H. Muller, E.S. Polzik</i> (State Polytechnic University, St.-Petersburg, Russia). "Quantum memory for light via alignment-type interaction with a spin-one system"	<i>Edgar K. Sadykov, V.V. Arinin, F.G. Vagizov</i> (Kazan State University, Kazan, Russia). "Controllable quantum interference on moessbauer transitions: rf "valve" effect, etc."
20:10 – 21:10	Dinner		
21:30 – 22:30	Concert of classical music		

July, 2

8:00 – 9:00	Breakfast and arrival in Kazan
	HALL A
9:00 – 9:30	PLENARY SESSION. Chair: Alexander Litvak <i>Roy Glauber</i> (Harvard University, USA). "One hundred years of light quanta"
9:30 – 10:00	<i>Marlan Scully</i> (Texas A&M University, USA). "A Simplified Bogoliubov Master Equation Analysis of Fluctuations in an Interacting Bose Gas"
10:15 – 13:45	Excursion in Kazan
13:45 – 14:45	Lunch
	HALL A
14:45 – 15:15	PLENARY SESSION. Chair: Forrest J. Agee <i>R. Kolesov, E. Kuznetsova, S. Olariu, F. Vagizov, Olga Kocharovskaya</i> (Texas A&M University, USA). "Coherent control of the atomic and nuclear transitions in solids"
15:15 – 15:45	<i>Andrey B. Savel'ev, A.V. Andreev, V. Bolshakov, G. Golovin, V.M. Gordienko, I. Lachko,</i>

15:45 – 16:15	<i>P.M. Mikheev, R.V. Volokov</i> (Moscow State University, Russia). “Recent results in low energy nuclear excitation using superstrong laser fields” <i>James Carroll</i> (Youngstown State University, USA). “ Induced energy release from nuclear isomers and the role of nuclear structure ”
16:15 – 16:30	Coffee Break, Departure from Kazan

16:30 – 17:50	INVITED TOPICAL SESSIONS		
	HALL A	HALL B	HALL C
	Coherent and Nonlinear Optics 3 Chair: <i>Ilya Averbukh</i>	Quantum Information 3 Chair: <i>M. Suhail Zubairy</i>	8th AFOSR Workshop on Quantum Nucleonics and Isomers 3 Chairs: <i>James J. Carroll and Anne Matsuura</i>
16:30 – 16:50	<i>Petra Sauer and Roland E. Allen</i> (Texas A&M University, USA). Response of Dipicolinic Acid to Ultrafast Laser Pulses	<i>Robert J.C. Spreeuw and Tom W. Hijmans</i> (Van der Waals-Zeeman Institute, University of Amsterdam, The Netherlands). “Quantum search using local relaxation; simulation with polynomial resources”	<i>Anatoli Andreev</i> (Moscow State University, Russia). “Laser applications in nuclear physics research”
16:50 – 17:10	<i>Dmitry Zhdanov, B.A. Grishanin, V.N. Zadkov</i> (M.V. Lomonosov Moscow State University, Russia). “Orientation Selection of Molecules with the Help of Joint Action of Laser and Electrostatic Fields”	<i>N.S. Sisakyan and Yuri P. Malakyan</i> (Institute for Physical Research of National Academy of Sciences of Armenia, Armenia). “Controllable remote entanglement of single-photon states in multiple time-bins”	<i>Farit Vagizov, Roman Kolesov, Silviu Olariu, Olga Kocharovskaya</i> , (Texas A&M University, USA). “Experimental search for laser induced effects in Mössbauer spectra of ¹⁵¹ Eu and ⁵⁷ Fe doped crystals”
17:10 – 17:30	<i>Kyungsun Na and Linda E. Reichl</i> (University of Texas at Austin, USA). “The Dynamics of STIRAP Based Quantum Control”	<i>Heidi Fearn</i> (California State University Fullerton, USA). “Faster-Than-Light Signals in Vacua”	<i>Sarkis A. Karamian, James J. Carroll</i> (Joint Institute for Nuclear Research, Dubna, Russia). “Prospects for Coulomb-Excitation-Driven Nuclear Radiation”
17:30 – 17:50	<i>Natalya N. Rubtsova</i> (Institute of Semiconductor Physics, Siberian Branch RAS, Russia). “Coherent control of optical transients in molecules, atoms, nanostructures: results and perspectives”	<i>N. Andrianov, D. Ivanov, Tania Golubeva</i> (V.A. Fock Physics Institute, St.-Petersburg State University, St. Petersburg, Russia). “Quantum dense coding with phase locked sub-Poissonian laser”	<i>Feodor F. Karpeshin, M.B. Trzhaskovskaya</i> (University of St.-Petersburg, Russia). “Application of resonance conversion for triggering isomer energy”

18:00 – 22:30	Green Stop in Kozlovka
18:00 – 19:30	POSTER SESSION
	<i>Ivan Agafonov, Timur Iskhakov, Maria Chekhova</i> (M.V. Lomonosov Moscow State University, Moscow, Russia). “Photo detector dead time consideration in study of the intensity correlation functions in pulsed regime”
	<i>Elena Kuznetsova, Yuri Rostovtsev, Nikolai G. Kalugin, Roman Kolesov, Olga Kocharovskaya, Marlan O. Scully</i> (Texas A&M University, USA). “Generation of coherent terahertz pulses in optical crystals at room temperature”
	<i>Koryun B. Oganesyan, K.G. Petrosyan, A.E. Allahverdyan</i> (Yerevan Physics Institute, Yerevan, Armenia). “Laser cooling of electrons and X-ray generation: A relativistic quantum heat engine”
	<i>E.K. Sadykov, Alexandr A. Yurichuk</i> (Kazan State University, Kazan, Russia). “The resonant scattering of Moessbauer radiation in levels “anticrossing” conditions”
	<i>Sarkis A. Karamian, J.J. Carroll, S. Iliiev, S.P. Tretyakova</i> (Joint Institute for Nuclear Research, Dubna, Russia). “To a possibility of the ^{178m2} Hf isomer alpha-decay”
	<i>V.Yu. Lyubimov, Evgenii A. Popov</i> (Kazan State Power Engineering University, Kazan, Russia). “The quantum interference effects of gamma-radiation under crossing of nuclear levels in radiofrequency field”

	<i>S.P. Kulik, S.S. Straupe, M.V. Fedorov, M.A. Efremov, <u>Ekaterina Moreva</u></i> (Moscow Engineering Physics Institute Moscow, Russia). "Entanglement degree of biphotons"
	<i>Igor V. Koryukin, V.A. Povyshev</i> (Institute of Applied Physics RAS, Russia). "Antiphase Dynamics of Multimode Semiconductor Laser"
	<i>G. Alzetta, S. Gozzini, A. Lucchesini, S. Cartaleva, Todor Karaulanov, C. Marinelli and L. Moi</i> (Institute of Electronics, BAS, Sofia, Bulgaria). "Electromagnetically Induced Transparency Resonances in Potassium"
	<i>Anton Biryukov, S.M. Nekorkin, B.N. Zvonkov, V.Ya. Aleshkin, A.A. Dubinov, V.I. Gavrilenko, K.V. Maremyanin, S.V. Morozov, A.A. Belyanin, V.V. Kocharovsky, Vi.V. Kocharovsky</i> (Research Physical-Technical Institute of the Nizhny Novgorod State University, Nizhny Novgorod, Russia). "Experimental study of nonlinear mode mixing in dual-wavelength semiconductor lasers"
	<i>Elena V. Kazantseva, Andrei I. Maimistov, Sergei O. Elyutin, Stefan Wabnitz</i> (Moscow Engineering Physics Institute, Moscow, Russia). "Amplification of the short optical pulse in a non-linear birefringent medium"
	<i>Vladimir I. Vysotskii, Stanislav V. Adamenko</i> (Electrodynamics Laboratory "Proton-21", Kiev, Ukraine). "Processes of neutronization and protonization of nuclei at a shock compression of a target and the mechanism of ultrahigh energy particles induced creation"
	<i>A.A. Belyanin, V.V. Kocharovsky, Vi.V. Kocharovsky, Vladimir Kukushkin, V.Ya. Aleshkin, and A.A. Dubinov</i> (Institute of Applied Physics RAS, Russia). "Mode-locking regimes of difference-frequency generation in nonlinear mixing heterolasers"
	<i>Arkady Gonoskov, I.A. Gonoskov, M.Yu. Ryabikin, and G.M. Fraiman</i> (Institute of Applied Physics RAS, Russia). "Electron-ion collisions at scattering and ionisation in strong laser field: quantum 3D numerical simulations"
	<i>Ivan Gonoskov, M.Yu. Ryabikin, and A.M. Sergeev</i> (Institute of Applied Physics RAS, Russia). "Harmonic generation and electron diffraction in light molecules ionized by few-cycle laser pulse"
	<i>Vera B. Zon</i> (Voronezh State University University, Voronezh, Russia). "Surface Plasmon Refraction, Reflection and Radiation at a Right-Angled Boundary"
	<i>Ekaterina E. Orlova, J.N. Hovenier, T.O. Klaassen, I. Kasalynas, A.J.L. Adam, J.R. Gao, T.M. Klapwijk, B.S. Williams, S. Kumar, Q. Hu, J.L. Reno</i> (Institute for Physics of Microstructures RAS). "Directivity of sub-wavelength wire lasers"
	<i>Vyacheslav A. Mironov</i> (Institute of Applied Physics RAS, Russia). "Structure Features of Laser Radiation Self-action in Electromagnetic Induced Transparency Regimes"
	<i>Konstantin Dorfman, N.S. Ginzburg, A.M. Malkin, R.M. Rozental, V.Yu. Zaslavsky</i> (Institute of Applied Physics RAS, Russia). "Mode selection and amplification in open waveguides with planar Bragg structures"
	<i>V.A. Zheltonozhsky, N.V. Strilchuk, Pavel N. Trifonov</i> (Institute for Nuclear Research, Kiev, Ukraine). "ICC measuring at M4-isomers decay"
	<i>Pavel Khandokhin</i> (Institute of Applied Physics RAS, Russia). "Relaxation oscillations frequencies of the bipolarized vertical cavity surface emitting semiconductor lasers"
	<i>E.V. Moreva, Stanislav S. Straupe, and S.P. Kulik</i> (M.V. Lomonosov Moscow State University, Russia). "Polarization ququarts"
19:30 – 22:30	Reception

July, 3

8:00 – 9:00	Breakfast		
	HALL A		
	PLENARY SESSION. Chair: Philippe Grangier		
9:00 – 9:30	<i>Maxim Sukharev and Tamar Seideman</i> (Northwestern University, Evanston, USA). "A Coherent Control Approach to Manipulating Light in the Nanoscale"		
9:30 – 10:00	<i>Viktor L. Balykin, Fam Le Kien, and K. Hakuta</i> (Institute of Spectroscopy RAS, Russia). "Coherent manipulation of atoms using evanescent field around optical nanofiber"		
10:00 – 10:30	<i>Gershon Kurizki, Coren Gordon, Abraham Kofman</i> (The Weizmann Institute of Science, Rehovot, Israel). "Can we protect quantum information from decoherence?"		
10:30 – 11:30	INVITED TOPICAL SESSIONS		
	HALL A	HALL B	HALL C
	Mini-Symposium on Attosecond Physics 4	EIT 2 Chair: Yuri Malakyan	8th AFOSR Workshop on Quantum Nucleonics and Isomers 4

	Chairs: Mikhail Ryabikin, Alexei Sokolov		Chairs: James J. Carroll and Anne Matsuura
10:30 – 10:50	<i>Manfred Kleber, T. Kramer and P. Raab</i> (Technische Universität, München). "Path integral approach to electron motion in external fields"	<i>Roman Kolesov and Olga Kocharovskaya</i> (Texas A&M University, USA). "Optical effects of Zeeman coherence in room-temperature solids"	<i>Adam Hayes and Douglas Cline</i> (University of Rochester, USA). "Coulomb Excitation of the $K^{\pi} = 5^{-} 242^m$ Am Isomer ($t_{1/2} = 141$ y)"
10:50 – 11:10	<i>Martin Schultze, M. Uiberacker, Th. Uphues, A.-J. Verhoeff, H. Schrder, M. Drescher, U. Kleineberg, U. Heinzmann and F. Krausz</i> (Max-Planck-Institut fuer Quantenoptik, Garching, Germany). "Attosecond Time Resolved Ionisation Spectroscopy: Sampling of Inner-Shell Processes in Xenon"	<i>Vasily Arkhipkin</i> (Institute of Physics SB RAS, Krasnoyarsk, Russia). "Coherent Controlling of Light with Light using electromagnetically induced transparency"	<i>M.S. Litz, M. Helba, Hilary Roberts, N. Guardala, G. Merkel, N. Pereira, and J.J. Carroll</i> (SRS Technologies, Huntsville, USA). "Study of 166m Ho nuclear isomer using a Continuous Source"
11:10 – 11:30	<i>Alexander Popov, O.V. Tikhonova, E.A. Volkova</i> (Moscow State University, Russia). "Ab initio modeling of atomic ionization by few-cycle laser pulses and generation of XUV radiation of attosecond duration"	<i>R. Akhmedzhanov, Lev Gushchin, E. Kuznetsova, A. Litvak, V. Yazenkov, N. Zharova</i> (Institute of Applied Physics RAS, Russia). "Investigation of electromagnetically induced transparency in $Pr^{3+} : LaF_3$ "	<i>Silviu Olariu, F. Vagizov, R. Kolesov, E. Alp, O. Kocharovskaya</i> (National Institute of Physics, Bucharest, Romania). "Nuclear Resonance Scattering of Synchrotron Radiation by Optically Excited States of $^{151}Eu, ^{161}Dy$ "
11:30 – 11:50	Coffee Break		

11:50 – 13:10	INVITED TOPICAL SESSIONS		
	HALL A	HALL B	HALL C
	Coherent and Nonlinear Optics 4 Chair: Andrei I. Maimistov	Mini-Symposium on Attosecond Physics 2 Chairs: Mikhail Ryabikin, Alexei Sokolov	8th AFOSR Workshop on Quantum Nucleonics and Isomers 5 Chairs: James J. Carroll and Anne Matsuura
11:50 – 12:10	<i>Edward S. Fry, C.H. Raymond Ooi, Marlan O. Scully</i> (Texas A&M University, USA). "Directed Spontaneous Emission from an Extended Ensemble of N Atoms"	<i>Andre Mysyrowicz, C. d'Amico, A. Houard, B. Prade, M. Franco</i> (Ecole Polytechnique, France). "Femtosecond laser filamentation in air"	<i>Vladimir Vysotskii</i> (Kiev National Shevchenko University, Kiev, Ukraine). "Controlled conversion decay and controlled beta-decay in quantum nucleonics"
12:10 – 12:30	<i>Boris Zon</i> (Voronezh State University, Voronezh, Russia). "Peculiarities in Ultrafast X-Ray Spectra on Electron-Atom Scattering"	<i>George Heck, Joseph Sloss, Robert J. Levis</i> (Temple University, USA) "Adaptive Control of the Spatial Position of White Light Filaments in an Aqueous Solution"	<i>Anatoly Zadernovsky</i> (MIREA Technical University, Moscow, Russia). "Stimulated gamma emission in an active medium with hidden inversion"
12:30 – 12:50	<i>Yevgeny Radeonychev, M.D. Tokman, A.G. Litvak, and Olga Kocharovskaya</i> (Institute of Applied Physics RAS, Russia). "Induced optical transparency via frequency modulation of two-level atomic system"	<i>Vasily V. Strelkov, I.J. Sola, L. Elouga, E. Mvel, E. Constant, L. Poletto, P. Villoresi, E. Benedetti, J.-P. Caumes, S. Stagira, C. Vozzi, G. Sansone, M. Nisoli</i> (General Physics Institute, Russian Academy of Science, Russia). "Control of attosecond pulse emission via ellipticity gating"	<i>Vladimir I. Kirischuk, N. V. Strilchuk and V. A. Zheltonozhsky</i> (Institute for Nuclear Research, National Academy of Sciences, Kiev, Ukraine). "New perspectives for experimental investigation of 178m2hf isomer triggering by low-energy photons"
12:50 – 13:10	<i>Shi-Yao Zhu</i> (Hongkong Baptist University, Hong Kong)	<i>Alexey A. Balakin</i> (Institute of Applied Physics RAS, Russia). "Ultra Hot Electron Production in Relativistic Intensity Laser Plasmas"	<i>Igor Izosimov</i> . "Triggering of nuclear isomers via decay of autoionization states in electron shells (NEET)"
13:10 – 14:10	Lunch		
	HALL A		
	PLENARY SESSION. Chair: Wilhelm Becker		
14:10 – 14:40	<i>Nick Wagner, Andrea Wuest, Margaret Murnane, Henry Kapteyn</i> (Department of Physics and JILA, University of Colorado and NIST, Boulder, CO, USA).		

14:40 – 15:10	"Observing molecular dynamics through the high-order harmonic generation process" <i>Sveneric Johansson and Vladilen Letokhov</i> (Institute of Spectroscopy, Russian Academy of Science, Russia). "Astrophysical Lasers and Nonlinear Optical Effects in Space"		
15:10 – 16:10	INVITED TOPICAL SESSIONS		
	HALL A	HALL B	HALL C
15:10 – 15:30	Quantum control Chair: Gershon Kurizki <i>Vladimir Akulin</i> (Laboratory Aime – Cotton, CNRS, Orsay, France). "Quantum Entanglement Characterization with Nilpotent Polynomials"	EIT 2 Chair: Edward S. Fry <i>Elena Kuznetsova, Roman Kolesov, Olga Kocharovskaya</i> (Texas A&M University, USA). "Coherent population trapping via a continuum with a train of pulses"	8th AFOSR Workshop on Quantum Nucleonics and Isomers 6 Chairs: James J. Carroll and Anne Matsuura <i>Joseph W. Schumer, F.C. Young, R.J. Allen, B.V. Weber, and J. Davis</i> (Naval Research Laboratory, Washington, USA). "Study of nuclear isomers using pulsed power drivers"
15:30 – 15:50	<i>Martin Kiffner, J. Evers, and C. H. Keitel</i> (Max Planck Institute, Germany). "Quantum interference enforced by time-energy complementarity"	<i>Todor Karaulanov, S. Cartaleva, D. Slavov, N. Petrov</i> (Institute of Electronics, BAS, Sofia, Bulgaria). "Electromagnetically induced transparency phenomenon under AC magnetic field influence"	<i>Victor A. Zheltonozhsky, V.I. Kirischuk, N.V. Strilchuk</i> (Institute for Nuclear Research, Kiev, Ukraine). "Nuclear isomers excitation an photonless annihilation"
15:50 – 16:10	<i>Yuri M. Golubev</i> (V.A. Fock Physics Institute, St.-Petersburg State University, Russia). "Coherent control by the photon statistics in three-level lasing: induced photon statistics"	<i>V.M. Datsyuk, D.V. Kuprianov, Igor M. Sokolov, M.D. Havey</i> (State Polytechnic University, St. Petersburg, Russia). "Light scattering under conditions of electromagnetically induced transparency"	<i>Alexey Ya. Dzyublik, V. Meot, G. Gosselin</i> (Institute for Nuclear Research, Kiev, Ukraine). "Decay of nuclear isomers in the laser field"
16:10 – 16:40	CLOSING OF THE CONFERENCE		
16:40 – 17:00	Coffee Break and boat arrival in Nizhny Novgorod		
17:30 – 19:00	Excursion in Nizhny Novgorod		
19:00 – 20:00	Dinner		