

Time	Section 1	Section 2	Section 3
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Updated: 01 August

	Saturday, 17/09		
18:00-20:00	Registration		
	Monday, 18/09		
08:00 - 8:45	Registration		
08:45 - 09:00	Opening ceremony		
Plenary Session 9:00 - 10:00	Mark Brongersma "Resonant Semiconductor Nanostructures for Optoelectronic Devices"		
10:00 - 10:30	Coffee break and Poster Session I		
10:30 - 12:35	<i>Section "Topologically protected structures and nontrivial optical systems (I)" (Chair: Alexander Khanikaev)</i>	<i>Section "All-dielectric nanophotonics (I)"</i>	
	Moti Segev (keynote) (10:30 - 11:05) "Topological Photonics and Topological Insulator Laser"	Boris Lukiyanchuk (keynote) (10:30 - 11:05) "Walks with a Mie theory along a classical optics, plasmonics and nanooptics"	
	Dmitry Solnyshkov (invited) (11:05 - 11:30) "Topologically Protected States in Polaritonic Systems"	Andrey Sukhorukov (invited) (11:05 - 11:30) Generation and Measurement of Quantum Entangled Photons with All-Dielectric Metasurfaces	
	Chaohong Lee (invited) (11:30 - 11:55) "Topological States in Modulated Optical Waveguides"	Andrey Miroshnichenko (invited) (11:30 - 11:55) Role of Anapole Mode in Light Scattering by Dielectric Nanoparticles	
	Andrea Blanco-Redondo (invited) (11:55 - 12:20) "Photonic Quantum Walks with Symmetry Protected Topological Phases"	Andrey Evlyukhin (invited) (11:55 - 12:20) Optical theorem and features of multipole decompositions for dielectric nanoparticles	
	Maxim Gorlach (oral) (12:20 - 12:35) "Spectroscopy of topological photonic states in dielectric metasurfaces"	Kirill Koshelev (12:20 - 12:35) Theory of Fano Resonance for Scattering Spectrum of All-dielectric Spherical Resonators	
12:30 - 14:00	Lunch		
14:00 - 16:00	<i>Section "Topologically protected structures and nontrivial optical systems (II)" (Chair: Alexey Slobozhanyuk)</i>	<i>Section "All-dielectric nanophotonics (II)"</i>	
	Alexander Khanikaev (invited) (14:00 - 14:25) "All-Dielectric Photonic Topological Metacrystals"	Andrey Fedyanin (keynote) (14:00 - 14:35) "Femtosecond Nonlinear Optics in All-Dielectric Metasurfaces"	

	Jensen Li (invited) (14:25 - 14:50) "Experimental realization of real space gauge field with metamaterials"	Dragomir Neshev (invited) (14:35 - 15:00) Mixing colours of light in nonlinear dielectric metasurfaces	
	Jian-Wen Dong (invited) (14:50 - 15:15) "Valley metamaterials for control spin and topology"	Maxim Shcherbakov (invited) (15:00 - 15:25) Ultrafast processes in active semiconductor metasurfaces	
	Romain Fleury (invited) (15:15 - 15:40) "Crystalline metamaterials for topological properties at the subwavelength scale"	Varvara Zubyuk (15:25 - 15:40) Ultrafast Modulation Of Femtosecond Laser Pulses In Direct-gap Semiconductor Metasurfaces With Magnetic Resonances	
	Zheng-Wei Zhou (invited) (15:40 - 16:05) "Simulating Topological physics by using synthetic dimensions based on optical orbital angular momentum"	Sergey Makarov (15:40 - 15:55) Second Harmonics Generation from Si nanoantenna	
16:00 - 16:30	Coffee break and Poster Session I		
16:30 - 18:30	<i>Section "Topologically protected structures and nontrivial optical systems (III)" (Chair: Jensen Li)</i>	<i>Section "Optical Metasurfaces"</i>	
	Ido Kaminer (invited) (16:30 - 16:55) "Topologically Enabled Light-Matter Interactions"	Isabelle Staude (invited) (16:30 - 16:55) Active, tunable and nonlinear Mie-resonant semiconductor metasurfaces	
	Jian-Hua Jiang (invited) (16:55 - 17:20) "Type II Dirac Photons"	Nicolas Bonod (invited) (16:55 - 17:20) Enhancing light-matter interactions with Si-based optical antennas	
	Tetsuyuki Ochiai (17:20 - 17:35) Gapless Domain-Wall States Originated from Accidentally Degenerate Quadratic Band Touching in a Three-Dimensional Photonic Crystal	Junsuk Rho (invited) (17:20 - 17:45) "3D metamaterials at optical frequencies"	
	Wenlong Gao (invited) (17:35 - 18:00) "Topological photonics in metamaterials and magnetized plasma"	Takaaki Yano (invited) (17:45 - 18:10) Surface- and tip-enhanced Raman spectroscopy using all-dielectric nanostructures	
	Zhou Li (invited) (18:00 - 18:25) "Terahertz optical response in topological insulators and valleytronic materials"	Ksenia Baryshnikova (18:10 - 18:25) Near-field analysis of the anapole states in high-index particles	
18:30 - 19:30	Welcome reception		
	Tuesday, 19/09		
Plenary Session 9:00-10:00	Andrey Rogach "Photoalignment and Patterned Alignment of Light-Emitting Semiconductor Nanorods"		
10:00 - 10:30	Coffee break and Poster Session II		
10:30 - 12:30	<i>Section "Nanophotonics based devices"</i>	<i>Section "Photonic Crystals"</i>	<i>Special Section "Novel Materials and Techniques For Magnetic Resonance Imaging (I)" (Chair Stanislav Glybovski)</i>

	Harald Giessen (keynote) (10:30 - 11:05) Merging micro- and nanooptics	Kestutis Staliunas (invited) (10:30 - 10:55) Photonic Crystal Microchip Laser	Stefan Enoch (invited) (10:30-10:55) "How hybridized meta-atoms and Kerker effect could be used for molding RF fields in ultra-high field MRI"
	Na Liu (oral) (11:05 - 11:20) Dynamic plasmonic colour display	Yun Lai (invited) (10:55 - 11:20) Ultrasensitive photonic crystals	Redha Abdeldaim (invited) (10:55-11:20) Passive RF Field Homogenization in Ultra-High Field MRI
	Anton Samusev (11:20 - 11:35) Nanoscale White Light Source For Near-Field Nanospectroscopy	Igor Meglinski (invited) (11:20 - 11:45) Propagation of twisted light in turbid tissue-like scattering medium	Alena Shchelokova (oral) (11:20-11:35) "Tunable hybrid metasurfaces for MRI applications"
	Ivan Sinev (11:35 - 11:50) Demultiplexing Surface Waves With Silicon Nanoantennas	Kirill Samusev (11:45 - 12:00) Quasi-crystalline and Disordered Photonic Structures Fabricated Using Direct Laser Writing	Ekaterina Brui (oral) (11:35-11:50) "Usage of Wire Metamaterial Resonators with distributed capacitive load for In-vivo Magnetic Resonance Imaging"
	Ilya Zabkov (11:50 - 12:05) Lasing Thresholds in DFB Systems Based on Perforated Metallic Films	Vladimir Mantsevich (12:00 - 12:15) Dynamic Photonic Crystal Creation by Means of Non-Coplanar Laser Beams Interference in Colloidal CdSe/ZnS Quantum Dots Solution	Dmitry Dobrykh (oral) (11:50-12:05) "A Wireless Coil for MRI Based on a Periodic Split-Loop Array"
	Dmitry Gulkin (12:05 - 12:20) Bloch-surface-waves based photonic devices studied by leakage radiation microscopy	Andrey Bogdanov (12:15 - 12:30) Effect of substrate on optical bound states in the continuum in 1D photonic structures	Mikhail Zubkov (oral) (12:05-12:20) "Magnetic resonance-based metamaterial-assisted nervous tissue imaging"
			Alexey Slobozhanyuk (oral) (12:20-12:35) "Multimodal metasurfaces for magnetic resonance imaging"
12:30 - 14:00	Lunch		
14:00 - 16:00	<i>Section "Advanced Optical Materials (I)"</i>	<i>Section "Advanced methods of nanofabrication"</i>	<i>Special Section "Novel Materials and Techniques For Magnetic Resonance Imaging (II)" (Chair: Alexey Slobozhanyuk)</i>
	Valy Vardeny (Keynote) (14:00 - 14:35) "Manifestation of spin-orbit coupling in hybrid organic-inorganic perovskites optics and magneto-optics"	Saulius Juodkasis (Keynote) (14:00 - 14:35) High precision nanofabrication for nanophotonics	Neil Roberts (keynote) (14:00 - 14:35) Development of Meta-Materials for Magnetic Resonance Elastography (MRE) Studies of the Face
	Walter Hu (invited) (14:35 - 15:00) "Thermal nanoimprinting of organolead halide perovskite for nanophotonic applications"	Takashige Omatsu (invite) (14:35 - 15:00) Helical lights induced chiral mass transport	Constantin Simovski (invited) (14:35-15:00) "Decoupling of extremely coupled resonant electric dipoles with metamaterials"
	Marc Reig Escalé (invited) (15:00 - 15:25) Shaping the Light Distribution with Perovskite Nanowaveguides	Takashi Nakajima (invited) (15:00 - 15:25) In-Situ Fabrication of Polymer/Metal Nanocomposite Films using a Mid-Infrared Laser	Georgy Solomakha (oral) (15:00-15:15) "A new dual-mode RF-coil array element for 7T MRI"
	Valentin Milichko (oral) (15:25 - 15:40) Nano-Architecture of Metal-Organic Frameworks	Xuwen Wang (Oral) (15:25 - 15:40) Multiple Orbital Angular Momentum Generated by Dielectric Hybrid Phase Element	Anna Hurshkainen (oral) (15:15-15:30) "A novel metamaterial-inspired dual-frequency antenna design for MRI applications"
	Pavel Voroshilov (oral) (15:40 - 15:55) A Universal Microstructure for Enhanced Light-trapping in Organic and Perovskite-based Solar Cells	Aleksandr Kuchmizhak (Oral) (15:40 - 15:55) Direct femtosecond laser printing of plasmonic colors and functional sensing elements	Stanislav Glybovski (oral) (15:30-15:45) "A Mechanically Tunable and Efficient Ceramic Probe for MR-microscopy at 17 Tesla"
16:00 - 16:30	Coffee Break and Poster Session II		
16:30 - 18:30	<i>Section "Advanced Optical Materials (II)"</i>	<i>Section "Advanced methods of nanofabrication"</i>	<i>Section "Microwave applications and general phenomena" (Chair: Constantin Simovski)</i>
	Alexander Baranov (invited) (16:30 - 16:55) Surfactant-controlled self-assembly of colloidal quantum dots into ordered 3D super-structures	Yoshiki Nakata (invited) (16:30 - 16:55) Rapid fabrication of metallic nanostructures in lattice by interference femtosecond laser processing	Pavel Ginzburg (invited) (16:30 - 16:55) Micro-Doppler Spectroscopy of Moving and Time-varying Scatterers

	Sergey Gnedenkov (invited) (16:55 - 17:20) Composite Polymer-Containing Coatings on Mg Alloys Perspective for Industry and Implant Surgery	Jongpil Ye (invited) (16:55 - 17:20) Templated solid-state dewetting of single-crystal metal films	David Powell (invited) (16:55 - 17:20) Modal Techniques in Metamaterial, Nanophotonic and Antenna Problems
	Sergey Kharintsev (invited) (17:20 - 17:45) Nanoscale Photo-Orientation of Azo-Dyes in Glassy Environments Using Polarized Optical Near-Fields	Sergey Kudryashov (invited) (17:20 - 17:45) Race for novel high-index all-dielectric and hybrid metal-dielectric nanophotonic materials: pit-stop optical tests	Alexey Ustinov (invited) (17:20 - 17:45) Exploring Nonlinearity and Parametric Effects in Superconducting Metamaterials
	Vladimir Bochenkov (17:45 - 18:00) In-situ Resist Colloidal Lithography for Affordable Plasmonics	Ivan Mukhin (17:45 - 18:00) High resolution optical lithography through arrays of SiO ₂ micro-sized spherical lenses	Mingzhao Song (oral) (17:45-18:00) "Multipolar Modes in Dielectric Disk Resonator for Wireless Power Transfer"
	Evgeniy Chusovitin (18:00 - 18:15) Stress-Induced Indirect to Direct Band Gap Transition in β -FeSi ₂ Nanocrystals Embedded in Si	Wolfgang Husinsky (18:00 - 18:15) Gaining insight into ultrashort laser ablation via studying the particle emission process and the resulting surface morphology	Sergei Kosulnikov (18:00 - 18:15) "Investigation of the Irregular Wire Media Extreme Permittivity Parameters for Broadband Radiation Enhancement"
	Alexander Sergeev (18:15 - 18:30) Zinc Sulfide Quantum Dots for Photocatalytic and Sensing Applications	Alexey Kucherik (18:15 - 18:30) Fractal Bimetallic Plasmonics Structures Obtained by Laser Deposition of Colloidal Nanoparticles	Mikhail Lapine (invited) (18:15 - 18:40) Size effects in metamaterials and their role for MRI applications

18:30 - 20:30	Round Table on Road Map for Photonics and Quantum Communications (2 hours)		
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	Wednesday, 20/09	
Plenary Session 9:00-10:00	Wolfgang Parak "Colloids and their potential applications in biology"	
10:00 - 10:30	Coffee Break	
10:30 - 12:30	<i>Section "Nanoplasmonics for sensing and bioapplications"</i>	<i>Section "Advanced thermal effects"</i>
	Javier Aizpurua (keynote) (10:30 - 11:05) Molecular Optomechanics in Plasmonics Cavities: Driving Photonics to the Atomic Scale	Guillaume Baffou (invited) (10:30 - 10:55) Last advances in thermoplasmonics: new materials, new imaging techniques and new concepts in nanochemistry and cell biology.
	Qiang Zhang (invited) (11:05 - 11:30) Optical Imaging and Spectroscopy of Single Plasmonic Particle-on-film Nanocavities	Philippe Ben-Abdallah (invited) (10:55 - 11:20) Near-field heat transfer in many-body systems: from theory to applications
	Valentin Volkov (invited) (11:30 - 11:55) Novel Graphene-Oxide-Coated SPR Interfaces for Biosensing Applications	Qiang Li (invited) (11:20 - 11:45) "Control over Emissivity of Middle Infrared Thermal Emitters with Phase Changing Material"
	Alexey Vinogradov (invited) (11:55 - 12:20) Single-photon upconversion of biophotons	Dmitry Zuev (11:45 - 12:00) Si nanoparticle on Au film for photo-thermochemistry applications
	Anton Dyshlyuk (12:20 - 12:35) Surface Plasmon Resonance-based Refractometry Using Whispering Gallery Modes in Bent Metalized Single-mode Optical Fibers	Georgii Zograf (12:00 - 12:15) Resonant dielectric nanoparticles as a novel tool for optical heating and nanothermometry
12:30 - 14:00	Lunch	

14:00 - 16:00	<i>Section "Light-matter interaction"</i>	<i>Section "Metasurfaces"</i>
	Jeremy Baumberg (keynote) (14:00 - 14:35) Strong coupling condensates, plasmonics, and molecules	Tao Li (invited) (14:00 - 14:25) Broadband Achromatic Metasurfaces and Multiplexed Plasmonic Holography
	Temur Shegai (invited) (14:35 - 15:00) Strong plasmon-exciton coupling using individual plasmonic nanoantennas	Lei Zhou (invited) (14:25 - 14:50) High-efficiency and tunable metasurfaces in reflective and transmissive geometries
	Almas Sadreev (invited) (15:00 - 15:25) Bound states in the continuum with high orbital angular momentum in dielectric rod with periodically modulated permittivity	Maxim Gorkunov (invited) (14:50 - 15:15) Electromagnetic Chirality of Metasurfaces with Multichannel Resonant Transmission
	Chris Poulton (invited) (15:25 - 15:50) Metamaterials for opto-acoustic interactions	Mehdi Keshavarz Hedayati (invited) (15:15 - 15:40) Adoptive metasurface structural color
	Alexandr Musorin (15:50 - 16:05) The Correlation Between Magneto-Optical Response and Magnetic Dipole Resonance Excitation in Subwavelength Silicon-Nickel Nanogratings	Andrey Sayanskiy (15:40 - 15:55) Huygens' metasurfaces based on modified split-ring resonators for polarization control
16:00 - 16:30	Coffee Break	
16:30 - 18:30	<i>Section "Plasmonics"</i>	<i>Section "Functional structures and interfaces"</i>
	Min Qiu (invited) (16:30 - 16:55) Light pulls and pushes by synergy of optical force and photophoretic force	Andrey Lavrinenko (invited) (16:30 - 16:55) Advanced Fabrication of Hyperbolic Metamaterials
	Mihail Petrov (16:55 - 17:10) Optical binding via surface plasmon polaritons	Elena Naumova (invited) (16:55 - 17:20) Metamaterials based on the rolled-up 3D resonators
	Oleh Yermakov (17:10 - 17:25) Retrieval Procedure of Effective Conductivity for Plasmonic Resonant Anisotropic Metasurface	Armandas Balcytis (17:20 - 17:35) Rescalable solid-state nanopores
	Andrey Vyshnevyy (17:25 - 17:40) Controlling Noise in Plasmonic Structures with Gain	Ivan Oladyshkin (17:35 - 17:50) Mechanisms of Optical-to-THz Conversion on Metal and Semimetal Surfaces
	Andrey Pavlov (17:40 - 17:55) Refractive Index Sensing with Fano Resonances in Nanostructured Gold Films	Youngsoo Kim (17:50 - 18:05) All Dielectric Reflective Metasurfaces for Controlling Phase and Polarization by using Si Nanoblocks
	Vadim Zakomirnyi (17:55 - 18:10) Dispersion properties of plasmonic waveguides with core-shell nanoparticles	Alexander Chebykin (18:05 - 18:20) Reconfigurable c-Si/Au hybrid nanoantenna
	Ilya Fradkin (18:10 - 18:25) Cavityless Plasmonic Metal-Insulator-Metal Nanoresonator	
Thursday, 21/09		

Plenary Session 9:00-10:00	Franco Nori "Parity-Time-Symmetric Optics, extraordinary spin in evanescent waves, and the quantum spin Hall effect of light"	
10:00 - 10:30	Coffee Break	
10:30 - 12:30	<i>Section "Ultrafast and Nonlinear Phenomena"</i>	<i>Section "Advances in Polaritons"</i>
	Javier García de Abajo (keynote) (10:30 - 11:05) Ultrafast and Quantum Phenomena with Graphene Plasmons	Pavlos Lagoudakis (invited) (10:30 - 11:05) Engineering polariton simulators
	Leonid Golovan (11:05 - 11:20) Effects of Photon Enhanced Lifetime and Form Anisotropy in Silicon Nanowire Arrays on Efficiency of Nonlinear-Optical Processes	Daniel Leykam (invited) (11:05 - 11:30) Flat Bands
	Irina Kolmychek (11:20 - 11:35) Second Harmonic Generation in Media with Inhomogeneous Magnetization	Ivan Savenko (invited) (11:30 - 11:55) Multivalley engineering in semiconductor microcavities in which excitons and photons are localized in staggered potentials
	Bogdan Kochetov (11:35 - 11:50) Lateral Shift and Waveform Control of Dissipative Solitons in a Magneto-Optic Planar Waveguide	Andrei Elistratov (11:55 - 12:10) Coupled Exciton-Photon Bose Condensate: non-Markovian Character of the Open System
	Alexey Yulin (11:50 - 12:05) Resonant Radiation of Dispersive Waves by Solitary Waves Propagating in Nonlinear Fiber Arrays in the Regime of Bloch Oscillations	Anton Zasedatelev (12:10 - 12:25) Optical amplification in organic microcavities
	Boris Afinogenov (12:05 - 12:20) Sub-Picosecond All-Optical Switching of Tamm Plasmons	
12:30 - 14:00	Lunch	
14:00 - 16:00	<i>Section "Quantum phenomena"</i>	<i>Section "Optical effects in advanced materials"</i>
	Alexey Kavokin (keynote) (14:00 - 14:35) Light-matter coupling phenomena in low-dimensional nitride-semiconductors	Anvar Zakhidov (keynote) (14:00 - 14:35) Halide perovskite based photonic devices
	Alexey Akimov (invited) (14:35 - 15:00) Quantum optics with GeV color center in diamond	Oleg Kibis (invited) (14:35 - 15:00) Electromagnetic Dressing of Gapped 2D Materials
	George Tsironis (invited) (15:00 - 15:25) Coherence and collective effects in superconducting networks	Mikhail Glazov (invited) (15:00 - 15:25) Optics of two-dimensional materials and excitons
	Konstantinos Lagoudakis (invited) (15:25 - 15:50) Coherent Control of Solid State Qubits: Towards Platforms for On-Chip Quantum Information Processing	Zarina Sadrieva (15:25 - 15:40) Photoluminescence behavior of nanoimprinted halide perovskite at low temperatures
	Polina Kapitanova (15:50 - 16:05) Dielectric Resonator Antenna for Coupling to NV Centers in Diamond	Evgeniy Kuznetsov (15:40 - 15:55) Conical Refraction in Magneto-optical Crystals
16:00 - 16:30	Coffee Break	
16:30 - 17:50	<i>Section "Theory of Complex Structures and Metamaterials"</i>	<i>Section "Nanosystems and coatings"</i>

	Namkyoo Park (invited) (16:30 - 16:55) Correlated metadisorder for deterministic optical eigensystems	Sergey Sinebrukhov (16:30 - 16:45) Features of the corrosion protection of aluminium alloys by creation of hydrophobic coatings
	Sergey Vladimirov (invited) (16:55 - 17:20) Scattering and resonances of electromagnetic waves in complex "metamaterial" plasma	Alexander Sokolov (16:45 - 17:00) Nanostructured anatase TiO ₂ microtubes doped by Zr(IV), Hf(IV) and Mo(VI)
	Alexander Zharov (17:20 - 17:35) Parametric Disorder of Meta-atoms and Nonlinear Topological Transitions in Liquid Metacrystals	Dmitry Goroshko (17:00 - 17:15) Time-Resolved Photoluminescence Investigation of GaSb Nanocrystals Embedded in Silicon
	Dmitry Zezyulin (17:35 - 17:50) Energy Flows in PT-Symmetric Waveguides	Irina Saraeva (17:15 - 17:30) The double-resonance enhancement of stimulated low-frequency Raman scattering in silver-capped nanodiamonds
		Andrei Gnedkov (17:30 - 17:45) Self-Healing Effect of the Protective Inhibitor-Containing Coatings on Mg Alloys
18:00 - 18:45	Pavel Belov Closing ceremony	
19:00 - 22:00	Dinner	
	Friday, 22/09	
10:30 - 18:30	Cultural Programme	
10:30	Departing from FEFU	
11:00 - 13:30	Excursion to the Primorsky Aquarim, Show in the Dolphinarium	
14:00 - 15:30	Lunch at FEFU	
15:30 - 19:00	Excursion to Voroshilov batteries	
19:00	Back to Campus	