# The conference agenda (MNNSI-2017)

### 09.11.2017 (Thursday), Suzdal, Puschkarskaya sloboda

14.00-17.00	Check-in. Registration
17.00-20.00	Posters section, snack-party
20.00	Dinner

### 10.11.2017 (Friday), Suzdal, Puschkarskaya sloboda

10.00-10.30	Open ceremony
10.30-12.00	Plenary talks:
10.30-11.15	Global Planetary Transformations and the new Human- Nature relations: challenges and opportunities for science <b>Prof. Valentini Riccardo – plenary</b> Tuscia University, Viterbo
11.15-12.00	Bosonic lasers: present and future <b>Prof. Kavokin Alexey – plenary</b> School of Physics and Astronomy, University of  Southampton, Southampton
12.00-12.30	Coffee-break
12.30-14.00	Section: Nonlinear optics and spectroscopy
12.30-13.00	Cryogenic fluorescence nanoscopy with detection of single-molecule zero-phonon lines  *Prof. Naumov Andrey – invited*  Institute of Spectroscopy of RAS, Troitsk
13.00-13.30	The effect of molecular oscillations on energy transfer in macromolecular chain systems  *Prof. Chizhov Alexey – invited*  Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research
13.00-13.45	Temperature dependence of terahertz optical properties of LBO and perspectives of applications in down-converters <b>Dr. Nikolaev Nazar – oral</b> High Current Electronics Institute SB RAS

13.45-14.00	Low-temperature optical dephasing in ensemble of CdSe/CdS/ZnS quantum dots: study by means of incoherent photon echo
	PhD Karimullin Kamil – oral
	Institute of Spectroscopy of RAS, Troitsk
14.00-14.30	Short presentations of the young scientists
14.30-15.30	Lunch
15.30-19.00	Excursion on Suzdal
20.00	Conference dinner

### 11.11.2017 (Saturday), Suzdal, Puschkarskaya sloboda

10.00-11.30	Plenary talks:
10.00-10.45	Hybrid nanostructures for solar energy applications. From
	Dye Solar Cells to Perovskites: a new era for mesoscopic
	photovoltaics
	Prof. Eramo Giuseppe – plenary
	Mediterranean Institute of Fundamental Physics, Milano,
10 15 11 20	Rome
10.45-11.30	Mass-Defect Effects in Atomic Clocks
	Prof. Taichenachev Alexey – plenary
	Institute of Laser Physics SB RAS, Novosibirsk
11.30-12.00	Coffee-break
12.00-13.30	Section: Quantum and atomic optics
12.00-12.30	Spectroscopy of laser-cooled magnesium in an optical lattice
	Prof. Rasel Ernst – invited
	Institute of Quantum Optics, Leibniz Hannover University,
	Hannover
12.30-13.00	Analytical solutions for light emission intensities from
	cooperative ensembles in dielectrics
	Dr. Maxim Gladush – invited
	Institute of Spectroscopy of RAS, Troitsk
13.00-13.15	High extinction ratio integrated optical modulator for
	quantum telecommunication systems
	Dr. Shamrai Aleksandr – oral
	Ioffe Institute, ITMO University, St. Petersburg

13.15-13.30	Quantum antennas: designing states for field correlations  *PhD Karuseichyk Ilya – oral**
	Center of Quantum Optics and Quantum Information, B.I. Stepanov Institute of Physics, The National Academy of Sciences of Belarus, Minsk
13.30-14.30	Lunch
14.30-15.15	A polariton graph optimizer: what is needed to build a universal quantum simulator?  Prof. Berloff Natalia – plenary University of Cambridge, Cambridge
15.15-15.45	Coffee-break
15.45-16.30	Terahertz optics of the discrete and liquid environment <b>Prof. Shkurinov Alexander – plenary</b> Lomonosov Moscow State University, Moscow
16.30-19.15	Section: Nanophotonics and metamaterials
16.30-17.00	Plasmonic nanolaser
	Dr. Melentiev Pavel – invited
	Institute of Spectroscopy of RAS, Troitsk
17.00-17.30	The development of hybrid plasmonic nanostructures for medical application
	Dr. Povolotskiy Alexey – invited
	Institute of Chemistry, Saint-Petersburg State University, St. Petersburg
17.30-17.45	Characterization of patterned texture on vertical-cavity surface-emitting lasers
	PhD Huang Shen-Che – oral
	National Chiao Tung University, Hsinchu City
17.45-18.00	Magnetic field control of the polariton spin dynamics <i>PhD Sedov Eugeniy – oral</i>
	Vladimir State University, Vladimir
18.00-18.15	Optical properties of $\beta$ -BBO and potential for THz applications
	Dr. Nikolaev Nazar – oral
40 45 40 20	High Current Electronics Institute SB RAS, Novosibirsk
18.15-18.30	The generation of nonclassical states of the localized
	plasmons in the spaser systems under control of external magnetic field.
	PhD Prokhorov Alexey – oral
	Vladimir State University, Vladimir
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18.30-18.45	High order multipolar optical properties of non-symmetrical silicon nanostructures
	PhD Baryshnikova Kseniia – oral
	Laboratory "Nanooptomechanics", ITMO University,
	St. Petersburg
18.45-19.00	Nonlinear bifurcation diagrams of the current states of
	microcavity exciton-polaritons in the lattice.
	PhD Chestnov Igor – oral
	Vladimir State University, Vladimir
19.00-19.15	Interrelation of thesub-wavelength gold film's morphology on silicon and the efficiency of the second optical harmonic generation under ultrahigh vacuum conditions  Sinko Anton – oral
10.00.00	Lomonosov Moscow State University, Moscow
19.30-20.30	Poster section
19.30-20.30	Project meeting
20.30	Dinner

## 12.11.2017 (Sunday), Suzdal, Puschkarskaya sloboda

Plenary talks:
Verification of the quantum size effects in electroconductivity due to laser-induced controllable topology of the thin film nanocluster structures  Prof. Arakelian Sergei – plenary  Vladimir State University, Vladimir
Approaching to the limit of SPASERs from SPP Nanolasers  *Prof. Lu Tien-Chang – plenary  National Chiao Tung University, Hsinchu City
Coffee-break
Section: The methods of synthesis and diagnostics of nanomaterials and nanostructures
Novel Developments in SPM techniques
<b>Dr. Polyakov Vyacheslav – invited</b> NT-MDT Spectrum Instruments, Zelenograd
Simulation of subpicosecond multi-pulse laser ablation of metals  Dr. Povarnitsyn Mikhail – invited  Joint Institute for High Temperatures of RAS, Moscow

13.00-13.15	Direct laser printing of chiral plasmonic nanojets by vortex
	beams
	PhD Syubaev Sergey – oral
	Institute of Automation and Control Processes FEB RAS, Vladivistok
13.15-13.30	Investigation properties and developing sensors based on
13.13-13.30	graphene films, grown by thermodestruction of seminsulated
	SIC (0001) surface
	Dr. Lebedev Alexander – oral
	Ioffe Institute and ITMO University, St. Petersburg
13.30-15.00	Lunch
15.00-16.45	Section: Section: The methods of synthesis and diagnostics
	of nanomaterials and nanostructures
15.00-15.30	Structure of floating monolayers and Langmuir-Schaefer
	films of mix-substituted phthalocyanine holmium complex
	Dr. Kazak Alexander – invited
	Nanomaterials Research Institute, Ivanovo State University,
	Ivanovo
15.30-16.00	Applications of Atomic Force Microscopy in Liquid
	Environment
	PhD Leesment Stanislav – invited
	NT-MDT Spectrum Instruments, Zelenograd
16.00-16.15	Fabrication of porous nanostructures for Raman signal
	amplification
	PhD Mitsai Evgeniy – oral
	Institute of Automation and Control Processes FEB RAS,
	Vladivistok
16.15-16.30	Metal-carbyne complexes for SERS application
	Osipov Anton – oral
	Vladimir State University, Vladimir
16.30-16.45	New laser composite ceramic
	Pankov Mikhail – oral
17.00.10.00	FSE "GLP" Raduga
17.00-19.00	Project meeting
20.00	Dinner

# 13.11.2017 (Monday), Suzdal, Puschkarskaya sloboda

13.00-14.00	Lunch
12.00-12.30	Closing ceremony
10.00-12.00	Short presentation of the young scientists