



Vladimir  
12-16 November 2021




## SECOND ANNOUNCEMENT

**extended deadline 25.10.21**

### Organizers

- Stoletovs' Vladimir State University, Vladimir, Russia
- Westlake University of Hangzhou, China
- Russian Quantum Center, Skolkovo, Russia

### Supported by

- Ministry of Science and Higher Education of the Russian Federation
-  NT-MDT Spectrum Instruments
-  АВЕСТА  
ЛАЗЕРЫ И ОПТИЧЕСКИЕ СИСТЕМЫ AVESTA Project Ltd.
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### Conference Chairman

*Arakelian Sergey* – Head of the Department of Physics and Applied Mathematics  
Vladimir State University, Dr.Sc., Prof.

### Chairman of the Organizing Committee

*Kutrovskaya Stella* – Leading researcher of the Department of Physics and Applied Mathematics  
Vladimir State University, Dr., Associate professor

### Confirmed speakers and Invited talks

*Alexander Shkurinov*  
Moscow State University

Features of nonlinear optical phenomena in the terahertz frequency domain

*Alexey Povolotskiy*  
St. Petersburg University

Hybrid nanostructures based on optical heaters and luminescent thermometers

<i>Alexey Taichenachev</i> <i>Novosibirsk State University</i>	Applications of Generalized Ramsey Methods to Atomic Clocks
<i>Andrey Naumov</i> <i>Lebedev Physical Institute</i>	Photonics of single semiconductor quantum dots
<i>Igor Ryabtsev</i> <i>Institute of Semiconductor Physics</i>	One-qubit quantum gates with single rubidium atoms in optical dipole traps
<i>Julia Sheldakova</i> <i>Institute of Geosphere Dynamics</i>	Nanotechnologies for adaptive optics
<i>Stanislav Leesment</i> <i>NT-MDT Spectrum Instruments</i>	Control of environment in scanning probe microscopy
<i>Tigran Vartanyan</i> <i>ITMO University</i>	Drastic change of nanostructured zinc oxide properties in the temperature interval of 750 – 770 °C
<i>Valentyn Volkov</i> <i>Institute of Physics and Technology</i>	Nanophotonics with Transition Metal Dichalcogenides

### **Organizing Committee Contact address**

Vladimir State University  
Gorky str., 87, Vladimir 600000, Russia  
Tel./Fax: (4922)477796,  
Fax: (4922)333369  
e-mail: [mnnsi@interconf.pro](mailto:mnnsi@interconf.pro)

### **The goal of the Conference**

Getting together of young scientists (Master-students, PhD students, Postdocs) and leading researchers for a joint discussion of actual research problems of modern fundamental and applied physics, modalities of training by research.

### **Main Topics of the Conference**

- Nanophotonics and metamaterials
- Modern diagnostics of nanoobjects
- New physical principles of nanoelectronics
- Nonlinear optics and spectroscopy
- Quantum and atomic optics
- THz photonics
- New laser sources and emitters
- Low-dimensional materials and its applications

### **Special Conference Section:**

- Quantum computing and quantum simulations  
(chiefly organized by Russian Quantum Center, chaired by Professor Alexey Kavokin, Westlake University, China)

## **BOTH OFFLINE and ONLINE FORMATS**

Free online participation for registered users!

Tutorial and invited talks will be delivered live using Zoom-platform. We kindly ask to all participants to do a pre-record of a talk in case of technical difficulties. Zoom training and instructions on using Zoom and pre-recorded video preparing will be given in advance on the conference webpage. Other talks should be preparing in short and clear basis to be presented via the conference side.

Due to the current situation in the world, Program Committee has made decision to have a short **offline section** of at most 50 participants in heart of Vladimir, Park-hotel Panorama <https://панорама33.рф>. The access to the conference hall will be provided based on certificates of vaccination or PCR-tests collected not early than 48 hours before the conference launch. In case of any questions please contact to the Organizing Committee via [mnnsi@interconf.pro](mailto:mnnsi@interconf.pro). For more details please follow the official [webpage](#).

### **Important dates:**

**15.10.2021** – the **extended** deadline for abstracts

**25.10.2021** – the deadline for online-registration

**12.11.2021** – the conference start

**16.11.2021** – the conference end

The official languages of the conference are both English and Russian.

All full articles of the conference will be included in Conference Proceedings published in the Journal of Physics: Conference series.

## **CONFERENCE FEE FOR PROCEEDINGS**

The conference fee for attendance in person has assigned in 600€. This fee includes Conference proceedings and a conference set, an access to all Tutorial and invited talks, conference meetings and a roundtable out-of-doors, lunches, and coffee breaks and other activities within the official dates of conference.

As the online participation in MNNSI is free of charge, an option to publish your paper in the Journal of Physics: Conference series (indexed in WoS&Scopus data bases) consists of €100 (for each paper). Acceptance/rejection of manuscripts will be decided by the referees of the journal.

NOTE, we don't accept 1-3 pages proceedings for publication. Follow the articles Template from the [website](#)

The online payment system is now available on the conference website (in the "payment" section).

You are also welcome to pay based on an individual invoice.

## REGISTRATION FORM

Last name: \_\_\_\_\_

Name: \_\_\_\_\_

Patronymic: \_\_\_\_\_

Organization: \_\_\_\_\_

Position: \_\_\_\_\_

City: \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone: \_\_\_\_\_

The paper title: \_\_\_\_\_

Type of presentation (oral/poster/other): \_\_\_\_\_

Section: \_\_\_\_\_

Arriving date (to Vladimir): \_\_\_\_\_

Departure date (from Vladimir): \_\_\_\_\_

Comments: