



## Conference Schedule

### May 20, 2025 (Tuesday)

The whole day     **Arrival, free time**

### May 21, 2025 (Wednesday)

09:00 - 10:00     **On-site registration (Higher School of Economics - St. Petersburg, site on Kantemirovskaya 3)**

10:00 - 10:10     **Opening ceremony**

**Alexey Zhukov** (*HSE University – St. Petersburg, Russia*)

10:10 - 10:40     **Quantum materials with network architecture for optical information processing**

**Alexander Alodjants** (*ITMO University, Russia*)

10:40 - 11:10     **Wigner Quantum Structures: A New Platform for Nanophotonics and Quantum Gates?**

**Alexander Mintairov** (*Notre Dame University, USA / Ioffe Institute, Russia*)

11:10 - 11:40     **Photon sources for quantum computing and communications: achievements and challenges**

**Alexey Toropov** (*Ioffe Institute, Russia*)

11:40 - 12:00     **Coffee Break**

12:00 - 12:30     **Optical and spin properties of perovskite quantum dots**

**Maria Kuznetsova** (*St. Petersburg State University, Russia*)

12:30 - 13:00     **Long wavelength VCSELs for high-speed data transmission**

**Georgiy Sapunov** (*Green Photonics, P.R. China*)

13:00 - 13:30     **Elevator speech session I**

(Young scientists explain key idea of their posters in 1 minute presentation using 1-2 slides)

13:30 - 15:00     **Lunch**

15:00 - 16:30     **Poster Session I**

1. Lasers, solar cells and other optoelectronic devices

2. Electric, Magnetic and Microwave Devices

3. Crystal growth and structural properties of semiconductor materials and nanostructures

16:30 - 17:00 **Coffee Break**

17:00 - 18:00 **Poster Session I** (continued)

### May 22, 2025 (Thursday)

09:00 - 10:00 **On-site registration**

10:00 - 10:30 **Two-state lasing in quantum-dot microdisk lasers: from observation to control of operating characteristics**

**Ivan Makhov** (*HSE University – St. Petersburg, Russia*)

10:30 - 11:00 **UV-A and visible elastic III-N microwire-based light-emitting diodes**

**Ivan Mukhin** (*Alferov University, Russia*)

11:00 - 11:30 **Integrated silicon photonics with quantum dot on-chip lasers**

**Yating Wan** (*King Abdullah University, Saudi Arabia*)

11:30 - 12:00 **Coffee Break**

12:00 - 12:30 **Ultra-low noise microwave optoelectronic oscillators**

**Alexey Ustinov** (*ETU "LETI", Russia*)

12:30 - 13:00 **Dynamics of photoinduced absorption in Ge/Si quantum dots**

**Maxim Vinnichenko** (*Peter the Great University, Russia*)

13:00 - 13:30 **Elevator speech session II**

(young scientists explain key idea of their posters in 1 minute presentation using 1-2 slides)

13:30 - 15:00 **Lunch**

15:00 - 16:30 **Poster Session II**

4. Nanophotonics, Spectroscopy, Microcavities, Optics, Plasmonics, Spintronics, Electro- and Magneto-optics

5. Nanobiotechnology, Biophysics and Biophotonics

6. Other Aspects of Nanotechnology

16:30 - 17:00 **Coffee Break**

17:00 - 18:00 **Poster Session II** (continued)

18:00 - 18:30 **Closing remarks and award ceremony**

**Alexey Zhukov** (*HSE University – St. Petersburg, Russia*)

### May 23, 2025 (Friday)

The whole day **Departure, free time**

**Optional: Guided tour at the Int. Lab. of Quantum Optoelectronics, HSE – St Petersburg (12.00-14.00)**