

V International Symposium on Coherent Optical Radiation of Semiconductor Compounds and Structures

Moscow – Zvenigorod
November 23-26, 2015

PROGRAM

23 November 2015

09.00 – 12.00	Registration of participants of the Symposium Conference hall, 3rd floor of MEPhI main building, Moscow
12.00 – 14.00	Tour at the MEPhI Laboratories
14.00 – 15.00	Lunch
15.00 – 16.00	Workshop on international cooperation in the field of semiconductor quantum electronics. G- 322

24 November 2015

09.00 – 10.00	Registration of participants of the Symposium Conference hall of the Main building of P.N. Lebedev Physical Institute of RAS, Moscow
10.00 – 10.20	Opening Ceremony: Oleg N. Krokhin
Section 1 Chairman: Yuri M. Popov	Conference hall of the Main building of P.N. Lebedev Physical Institute of RAS.
10.20 – 11.00	Valentin A. Orlovich <i>(B. I. Stepanov Institute of Physics, Belarus)</i> Intracavity nonlinear optical conversion of radiation of diode-pumped lasers.
11.00 – 11.30	Andrei B. Krysa <i>(The University of Sheffield, UK)</i> Lasers based on InAsP quantum dots.
11.30 – 12.00	Break
12.00 – 12.30	Vladimir V. Kocharovsky <i>(Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod)</i> Dynamic spectrum of superradiant lasers and empirical mode with a variable spatial-temporal structure.
12.30 – 13.00	Vladimir I. Mazhukin <i>(Keldysh Institute of Applied Mathematics, MEPhI)</i> Mathematical modeling in the problem of laser technologies
13.00 – 15.00	Section 2 Chairman: Yurii A.
	Poster session The 2nd floor of P.N. Lebedev Physical Institute of RAS
14.00 – 15.00	Lunch break
15.00	Departure of the Symposium participants from P.N. Lebedev Physical Institute to the RAS Guest-house RAS«Zvenigorodskiy».
17.00-19.00	Registration and accommodation of the Symposium participants in the RAS Guest-house «Zvenigorodskiy»
19.00-20.00	Dinner break
20.00-22.00	Program of the Department of Physical Sciences of RAS. «Fundamental aspects of the physics and technology of semiconductor lasers as main elements of photonics and quantum electronics». Results of 2013. Chairman: Oleg N. Krokhin Oleg N. Krokhin, Irina N. Zavestovskaya, Ilya S. Tarasov, Yuri M. Popov, Vladimir I. Kozlovsky, Valery N. Shastin, Victor V. Bezotosnyi, Gevorg T. Mikayelyan.

25 November 2015

9.00 – 10.00	Breakfast
Section 3 Chairman: Irina N. Zavestovskaya	Auditorium of the RAS Guest-house «Zvenigorodskiy»
09.30 – 09.55	Vladimir I. Kozlovsky , Xin Rong, Guang Chen, Bo Shen and Xinqiang Wang <i>(P.N. Lebedev Physical Institute of RAS, MEPhI, Moscow, School of Physics, Peking University, Beijing, China)</i> E-beam pumped mid-UV light source based on multilayer heterostructure with AlGaIn QWs
09.55 – 10.20	Alexander A. Marmaluk <i>(JSC "M. F. Stelmakh Research Institute "Polyus")</i> The ruler and grid of laser diodes for pumping solid-state lasers.
10.20 – 10.45	Gennady I. Ryabtsev <i>(B. I. Stepanov Institute of Physics, Belarus)</i> Laser diode bars and matrixes in the system of longitudinal and transverse pumping of solid state lasers
10.45 – 11.10	Vladislav A. Oleshchenko <i>(P.N. Lebedev Physical Institute of RAS, MEPhI, Moscow)</i> Laser diodes at a wavelength of 980 nm with a continuous power of 15 W on the heat-removing elements of the F-mount.
11.10 – 11.25	Break
Section 4 Chairman: Alexander N. Starodub	Auditorium of the RAS Guest-house «Zvenigorodskiy»
11.25 – 11.50	Yuri P. Yakovlev <i>(Ioffe Institute, Moscow)</i> Synchronization of modes in a WGM laser with associated disk resonators.
11.50 – 12.15	Zinaida N. Sokolova , Levon V. Asryan <i>(Ioffe Institute, Moscow, Virginia Polytechnic Institute and State University, USA)</i> Capture rate of electrons in the quantum well of different depths in semiconductor lasers.
12.15 – 12.40	Alexander A. Andronov <i>(Institute for Physics of Microstructures RAS, Nizhny Novgorod)</i> Stimulated Emission at Transitions between Wannier–Stark Ladders in Semiconductor Superlattices
12.40 – 13.05	Vladimir P. Duraev <i>(JSC "Nolotech")</i> Tunable single-frequency semiconductor lasers.
13.05 – 13.30	Vladimir R. Baryshev , Naum S. Ginzburg <i>(Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod)</i> The use of two-dimensional distributed feedback to generate spatially coherent radiation in semiconductor lasers.
13.30 – 14.00	Lunch break
14.00 – 19.00	Sightseeing tour
20.00 – 23.00	Conference dinner

26 November 2015

9.00-10.00	Breakfast
Section 5 Chairman: Vladimir A. Makarov	Auditorium of the RAS Guest-house «Zvenigorodskiy»
09.30 – 09.55	Valery N. Shastin , Heinz-Wilhelm Hübers (<i>Institute for Physics of Microstructures RAS, Nizhny Novgorod, Institute of optical sensor systems, DLR, Berlin, Germany</i>) THz lasers on donors in silicon.
09.55 – 10.20	Maxim A. Ladugin (<i>JSC "Research Institute "Polyus"</i>) Quantum cascade laser spectral range 8-12 μm, obtained by the method of MOS-hydride epitaxy.
10.20 – 10.45	Vladimir I. Kozlovskiy (<i>P.N. Lebedev Physical Institute of RAS, MEPhI, Moscow Institute of Physics and Technology (State University)</i>) Lasers Fe ²⁺ :ZnS, Fe ²⁺ :ZnSe и Cr ²⁺ :CdSe mid-IR region: new results.
10.45 – 11.10	Evgeny A. Cheshev (<i>P.N. Lebedev Physical Institute of RAS, MEPhI</i>) The threshold of generation and synchronization of transverse modes of the Raman components of the radiation of the Nd:YVO4 laser with passive Cr ⁴⁺ :YAG shutter and longitudinal diode pumping.
11.10 – 11.30	Break
Section 6 Chairman: Valery N. Shastin	Auditorium of the RAS Guest-house «Zvenigorodskiy»
11.30 – 11.55	Svatlana P. Kotova (<i>Samara branch of P.N. Lebedev Physical Institute of RAS</i>) The formation of a lobe of light fields with the rotation intensity.
11.55 – 12.20	Vladimir P. Dzyuba , Yuri N. Kulchin (<i>Institute of automation and control processes, Far Eastern branch of RAS, Vladivostok</i>) Photoinduced low-threshold optical nonlinearity of dielectric nanosystems.
12.20 – 12.45	Evgeny A. Stepanov (<i>Lomonosov Moscow State University</i>) The formation of extremely short laser pulses in the middle infrared range in the crystal of gallium arsenide.
12.45 – 13.10	Yuri L. Kopylov , (<i>Kotel'nikov institute of radio engineering and electronics of RAS, Fryazino</i>) Optical properties of doped transparent ceramic Y3Al5O12 and Y2O3.
13.10 – 13.35	Stanislav D. Zakharov (<i>N.N. Blokhin Russian Cancer Research Center, P.N. Lebedev Physical Institute of RAS</i>) Radioprotective effect of photo-oxygen therapy for radiation injuries of the skin in oncology clinic.
13.35 – 13.50	Closing of the Symposium. Decision Making. Oleg N. Krokhin
14.00 – 15.00	Lunch break
16.00	Departure of the Symposium participants from the RAS Guest-house «Zvenigorodskiy» to Moscow.