

Hall 1 LAT-05/3	Hall 2 ICONO-03/1	Hall 3 ICONO-04/5
<p>17:00-18:15 LWE • Nanomaterials for Lasers (LAT-05/3)—Continued</p> <p>LWE3 • 18:00-18:15 • ORAL <i>Carbon nanotube based composites as materials for terahertz application</i>, M. V. Shuba, S. A. Maksimenko, <i>Inst. for Nuclear Problem, Belarus State Univ., Belarus</i>. Length dependent localized plasmon resonance contributes to the terahertz response of single-walled carbon nanotubes. It has been shown that terahertz effective permittivity of the carbon nanotubes based composite strongly depends on the nanotube length.</p>	<p>17:00-18:30 IWG • Nanophotonics and Plasmonics I (ICONO-03/1)—Continued</p> <p>IWG3 • 17:45-18:00 • ORAL <i>Morphology and optical properties of self-assembled nanostructures of a novel Indotricarbocyanine dye</i>, N.V. Belko, M.P. Samtsov, G.A. Gusakov, E.S. Voropay, A.N. Sevchenko <i>Inst. of Applied Scientific Problems, Belarusian State Univ., Belarus</i>. Indotricarbocyanine dye self-assembles in water-ethanol solutions into nanostructures. Their morphology was studied by atomic force microscopy, and their optical properties were investigated by absorption spectroscopy. Correlation between morphology and absorption spectra was examined.</p> <p>IWG4 • 18:00-18:15 • ORAL <i>Electrically controlled LC devices for spatial-polarization optical operation</i>, I.I. Rushnova, E.A. Melnikova, O.S. Kabanova, A.L. Tolstik, <i>Belarusian State Univ., Belarus</i>. Topology of the liquid-crystal structure with the electrically-controlled refractive interface has been proposed to realize the regime of spatial switching for the orthogonally polarized modes and the waveguide propagation of linearly polarized laser radiation.</p> <p>IWG5 • 18:15-18:30 • ORAL <i>Collective processes of formation plasmon pulses in the waveguide spaser based on the metal/dielectric interface pumped by semiconductor quantum dots</i>, A.S. Shesterikov, M.Yu. Gubin, M. G. Gladush, A. V. Prokhorov, <i>Sioletovs Vladimir State Univ., Russia</i>. The problem of plasmon pulses formation in metal/dielectric interface during the process of the cooperative decay of excited quantum dots placed in the dielectric layer near the metal surface is considered.</p>	<p>17:00-18:30 IWH • Nonlinear Optics and Novel Phenomena V (ICONO-04/5)—Continued</p> <p>IWH3 • 17:45-18:00 • ORAL <i>Compositional dependence of the nonlinear optical properties of glasses in the GexS100-xI10 system</i>, A.V. Romashkin, A.A. Murzanev, A.S. Lobanov, L.A. Mochalov, A.I. Korytin, A.N. Stepanov, <i>Inst. of Applied Physics RAS, Russia</i>. The nonlinear optical properties of glasses in the GexS90-xI10 system were studied as a function of their composition. For the (GeS2)90I10 composition, the nonlinear index reaches its minimum value and the two-photon absorption is maximal</p> <p>IWH4 • 18:00-18:15 • ORAL <i>Amplified spontaneous emission in two-photon excited Rb vapour</i>, A.M. Akulshin, D. Budker, and R. J. McLean, <i>Swinburne Univ. of Technology, Australia</i>. Experimental study of spectral and spatial characteristics of mid-IR radiation generated on the population inverted transition in Rb vapour is presented. A new way of detecting two-photon excitation in atomic media using amplified spontaneous emission is suggested.</p> <p>IWH5 • 18:15-18:30 • ORAL <i>3 mm thick PPLN structures for intracavity pumping of cascade optical parametric oscillator</i>, D. Kolker, A. Boyko, N. Kostyukova, A. Pronyushkina, I. Sherstov, S. Trashkeev, B. Nuyshkov and V. Shur, <i>Novosibirsk State Univ., Russia</i>. we are demonstrating an optical parametric oscillator based on 3 mm Labfer PPLN structures for intracavity pumping of secondary AGSe-OPO. Four different PPLN structures were investigated and effective aperture for effective pumping was defined.</p>