

Hall 1 LAT-05/3	Hall 2 ICONO-03/1	Hall 3 ICONO-04/5
17:00-18:15 LWE • Nanomaterials for Lasers (LAT-05/3)—Continued	17:00-18:30 IWG • Nanophotonics and Plasmonics I (ICONO-03/1)—Continued	17:00-18:30 IWH • Nonlinear Optics and Novel Phenomena V (ICONO-04/5)—Continued
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.	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.	IWH3 • 17:45-18:00 • ORAL <i>Compositional dependence of the nonlinear optical properties of glasses in the Ge<sub>x</sub>S<sub>100-x</sub>I<sub>10</sub> 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 Ge <sub>x</sub> S <sub>100-x</sub> I <sub>10</sub> system were studied as a function of their composition. For the (Ge <sub>2</sub> ) <sub>90</sub> I <sub>10</sub> composition, the nonlinear index reaches its minimum value and the two-photon absorption is maximal
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.	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.	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. Nuyshev 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.
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>Stoletovs 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.		