

Tuesday, September 27, 2016

Hall 1 ICONO-05/1	Hall 2 ICONO-07/1	Hall 3 ICONO-04/1
	<p>14:30-16:15 ITuF • Beyond Non-Linear Optics: High &amp; Extreme Optical Field Physics I (ICONO-07/1)—Continued</p> <p>ITuF4 • 16:00-16:15 • ORAL <i>Coherent and resonant quantum electrodynamics processes in strong pulsed laser fields</i>, S.P. Roshchupkin, <i>Department of Theoretical Physics, Peter the Great St. Petersburg Polytechnic Univ., Russia</i>. The review on coherent and resonant quantum electrodynamics processes (QED) proceeding in the strong pulsed light fields, realized in modern powerful pulsed lasers is presented.</p>	<p>14:30-16:30 ITuG • Nonlinear Optics and Novel Phenomena I (ICONO-04/1)—Continued</p> <p>ITuG6 • 16:00-16:15 • ORAL <i>Narrow-band terahertz generation by femtosecond optical pulses in a LiNbO<sub>3</sub> crystal</i>, E. A. Mashkovich, M. I. Bakunov, <i>Univ. of Nizhny Novgorod, Russia</i>. It is shown theoretically that a femtosecond optical pulse can efficiently generate narrow-band terahertz radiation in a bulk lithium niobate crystal. A phase-matched regime of the generation is provided by the anisotropic dielectric properties of the crystal.</p> <p>ITuG7 • 16:15-16:30 • ORAL <i>Propagation and nonlinear interaction of singular light beams</i>, O.G. Romanov, A.L. Tolstik, <i>Belarusian State Univ. Faculty of Physics Department of Computer Modeling, Belarus</i>. The evolution of spatial, topological and polarization structure of singular light beams under their propagation and nonlinear interaction in media with different types of nonlinearity has been investigated theoretically, numerically and experimentally.</p>