

10th Photonics Workshop (2017)

Program

Sunday, February 26, 2017

from	to	activity	carried by	type
16:10	16:30	<i>OPENING</i>	B. Jelenković	
		chairperson	B. Jelenković	
16:30	17:00	Dynamic interactions between glutamate-mediated plateau potentials and backpropagating action potentials in dendrites of cortical pyramidal neurons	S. Antić	1
17:00	17:30	Towards low-loss metamaterials for nanophotonics and plasmonics	Z. Jakšić	1
17:30	17:40	<i>BREAK</i>		
17:40	18:10	Scattering enhanced absorption in biophotonic structures	D. Pantelić	1
18:10	18:30	Luminescence and structural properties of Eu ³⁺ -doped Sr ₂ CeO ₄ nanopowders	D. Šević	2
18:30	20:00	<i>DINNER BREAK</i>		
		chairperson		
20:00	20:20	Proposal for efficient atom localization scheme using Zeeman coherences in degenerate two-level atomic system	J. Dimitrijević	2
20:20	20:40	Effects of water adsorption on thin films of graphene and tungsten disulfide as active components for biochemical sensors	R. Panajotović	2
20:40	21:00	Electromagnetic wave propagation through terahertz chiral metamaterials	D. Stojanović	2

21:00	21:10	<i>BREAK</i>		
21:10	21:30	The adsorption of gases during LIPSS formation on thin metal films with femtosecond beam	A. Kovačević	2
21:30	21:50	Comparison of the securities of two-state and four-state quantum bit-commitment protocols	D. Popović	2
21:50	22:10	Light localization in two-dimensional Lieb lattices with alternating spacings and Kerr nonlinearity	P. Beličev	2
22:10	22:30	Laser treatment of multilayered Ti/Ta thin film structures (pdf)	M. Obradović	2

Monady, February 27, 2017

from	to	activity	carried by	type
16:00	16:30	<i>REFRESHMENT</i>		
		chairperson		
16:30	17:00	Building your own Light Sheet Fluorescence Microscope	A. Kranz	1
17:00	17:30	H2020-CARDIALLY – Noninvasive capturing and quantitative analysis of multi-scale multi-channel diagnostic data of the cardiovascular system	Lj. Hadžievski	1
17:30	17:40	<i>BREAK</i>		
17:40	18:10	General analytic solutions to the various forms of the Nonlinear Schrödinger Equation using the Jacobi elliptic function expansion method	N. Petrović	1
18:10	18:30	Electro-optic techniques and THz time domain spectroscopy (pdf)	R. Pan	2
18:30	20:00	<i>DINNER BREAK</i>		
20:00	20:20	FTIR Spectrometer for spectral characterization of THz undulator at FLASH1 (pdf)	E. Zapolnova	2
20:20	20:40	Raman spectroscopy: a tool for the characterization	I. Petrović	2

		of antioxidant components of mature tomato fruits		
20:40	21:00	Imaging of functional and structural alterations in primary cortical astrocytes isolated from the transgenic rat model of ALS	S. Stamenković	2
21:00	21:10	<i>BREAK</i>		
21:10	21:30	Deformation of Fermi Surface for Ultracold Dipolar Fermi Gases	V. Veljić	2
21:30	21:50	Benefits of implementing online Dynamic Bandwidth Allocation algorithm in energy efficient WDM EPON	B. Pajčin	2
21:50	22:10	Performances of BB84 and B92 QKD authentication protocols analyzed by proposed physical model	N. Miljković	2
22:10	22:30	Ejection fraction calculation using multiparametric cardiac measurement system	M. Miletić	2
22:30	22:50	G-Protein Coupled Receptors structure prediction by Bayesian probabilistic approach principle	M. Mudrinić	2

Tuesday, February 28, 2017

from	to	activity	carried by	type
16:00	16:30	<i>REFRESHMENT</i>		
		chairperson		
16:30	17:00	Quantum Control on an Atom Chip	F. Cataliotti	1
17:00	17:30	Imaging the state of the blood-brain barrier, cellular and molecular markers of inflammation in hSOD1 G93A rat model of ALS	P. Andjus	1
17:30	17:40	<i>BREAK</i>		
17:40	18:10	Putting some light on the membrane physiology of filamentous fungi	M. Živić	1
18:10	18:30	Four way mixing in potassium vapor with large photon amplification	B. Jelenković	2

18:30	20:00	<i>DINNER BREAK</i>		
		chairperson		
20:00	20:20	Destruction of organophosphate pollutants in water using atmospheric pressure plasma sources	N. Škoro	2
20:20	20:40	Fabrication of fluorescent probe for cell bioimaging by bi-conjugation of gold nanoparticles with riboflavin and tryptophan biomolecules	V. Djoković	2
20:40	21:00	Nonlinear localized flat-band modes in pseudo-spinor diamond chain	G. Gligorić	2
21:00	21:10	<i>BREAK</i>		
21:10	21:30	Analysis of Transmission Line Coupled with Antisymmetric Split Ring Resonators	V. Milošević	2
21:30	21:50	Comparative analysis of two porous carbon materials based on similar type of precursors	A. Kalijadis	2
21:50	22:10	Assesment of connexin protein distribution in the human fetal cortex using confocal laser scanning microscopy	D. Kočović	2
22:10	22:30	Quantum Droplets in a Strongly Dipolar Bose-Einstein condensate	D. Vudragović	2
22:30	22:50	Stokes Eigenvectors of Anisotropic Medium	V. Merkulov	2

Wednesday, March 1, 2017

from	to	activity	carried by	type
16:00	16:30	<i>REFRESHMENT</i>		
		chairperson		
16:30	17:00	Maximally efficient symmetry based diagonalization of biophysical Hamiltonians	I. Milošević	1
17:00	17:30	Application of non-equilibrium plasmas in treatments of seeds and plant cells	N. Puač	1

17:30	18:00	Harmonic Generation via Excitation of Surface States Formed from Spatially Separated Electrons and Holes in Nanocomposites	O. Khasanov	1
18:00	18:10	<i>BREAK</i>		
		chairperson		
18:10	18:30	Photonic density of states near a semi-infinite metallodielectric superlattice	G. Isić	2
18:30	18:50	Hemoglobin imaging using two photon excitation fluorescence microscopy	A. Krmpot	2
18:50	19:10	Spatio-Temporal Localization of Powerful Femtosecond Pulses in Kerr Solids	O. Fedotova	2
19:10	19:20	<i>CLOSING</i>		
20:30	?	<i>WORKSHOP DINNER</i>		