

XiBiGP 2018 workshop PROGRAMME

Belgrade, Serbia, August 28, 2018

Tuesday 28 th August 2018	
XiBiGP Workshop (Hall A)	
08:15-08:45	Registration
08:45-09:00	Opening and Introduction Aleksandar Milosavljević (SOLEIL) and Sanja Tošić (IPB)
	Session 1, Chair: Sanja Tošić
09:00-09:30	<i>Photoelectron spectroscopy and dichroism of small biomolecules and clusters using electron/ion coincidence techniques</i> Gustavo Garcia , SOLEIL synchrotron, France
09:30-10:00	<i>Femtosecond time-resolved spectroscopy of some biological molecules</i> Oksana Plekan , Elettra-Sincrotrone Trieste, Italy
10:00-10:30	<i>Computational tools for studying X-Ray - Molecule interactions. A Halothane example</i> Miloš Milčić , University of Belgrade, Faculty of Chemistry, Serbia
10:30-11:00	Coffee break
	Session 2, Chair: Christophe Nicolas
11:00-11:30	<i>Shining (Synchrotron) Light on Nanoparticles</i> Robin Schürmann , University of Potsdam, Institute of Chemistry, Germany
11:30-12:00	<i>Photofragmentation of Radiosensitizers</i> Jacopo Chiarinelli , ISM-CNR, Italy
12:00-12:30	<i>Computational study of the fragmentation dynamics of bare and nanosolvated protonated leucine-enkephaline peptide ion</i> Ana Martín Somer , Departamento de Química, Facultad de Ciencias and ladChem, Spain
12:30-14:30	Lunch break
	Session 3, Chair: Aleksandar Milosavljević
14:30-15:00	<i>Interactions of energetic photons and fast ions with gas-phase DNA</i> Thomas Schlathöler , University of Groningen, Netherlands
15:00-15:30	<i>X-Ray absorption spectroscopy of gas-phase biomolecular ions</i> Lucas Schwob , DESY synchrotron, Germany
15:30-16:00	<i>Oxygen K-shell spectroscopy of isolated bare and solvated peptide</i> Miloš Ranković , J. Heyrovský Institute of Physical Chemistry, Czech Republic
16:00-16:30	Coffee break
	Session 4, Chair: Thomas Schlathöler
16:30-17:00	<i>Photoelectron spectroscopy of solvated proteins at the PLEIADES beamline</i> Christophe Nicolas , SOLEIL synchrotron, France
17:00-17:30	<i>Core-hole-state dynamics in aqueous Histidine during resonant inelastic scattering process</i> Johannes Niskanen , University of Turku, Finland
17:30-18:00	<i>Ions and Molecules at the Water Interface: A Spectroscopist's View of Solvation</i> Clara Saak , Uppsala University, Sweden
18:00-20:00	Welcome party

SPIG 2018 PROGRAMME

Belgrade, Serbia, August 28 – September 1, 2018

Wednesday 29 th August 2018		
SPIG 2018 (day 1)		
PL – Plenary lecture: 35+10 min	TL – Topical lecture: 25+5 min	PR – Progres Report: 15+5 min
08:15-09:00	Registration	
09:00-09:45	Opening , Chairs: Goran Poparić, Bratislav Obradović, Duško Borka and Milan Rajković	
	Plenary Session 1, Hall A , Chair: Aleksandar Milosavljević	
09:45-10:30	John Bozek (France) <i>Using X-rays to look at quantum mechanics in atoms, molecules and clusters</i>	
10:30-11:00	Coffee break	
	Plenary Session 2, Hall A , Chair: Miloš Škorić	
11:00-11:45	Evgeny Stambulchik (Israel) <i>Lineshape modeling: A computer experimentalist's perspective</i>	
11:45-12:30	Yasuhiko Takeiri (Japan) <i>Advanced helical plasma research toward steady-state fusion reactor by deuterium experiment in Large Helical Device</i>	
12:30-14:30	Lunch break	
	Parallel Session A1 Chair: Nenad Simonović	Parallel Session B1 Chair: Duško Borka
14:30-15:00	Christophe Blondel (France) <i>Cavity-enhanced photodetachment of H⁻ as a means to produce energetic neutral beams for plasma heating</i>	Radmila Panajotović (Serbia) <i>Modifications of 2D-material-organic thin films heterostructures produced by monoenergetic electron beam</i>
15:00-15:30	Rashid Nazmitdinov (Russia) <i>Magnetic field control of the quantum entanglement in two-electron artificial atoms</i>	Leonardo Marušić (Croatia) <i>Electronic Excitations in Alkali Intercalated Graphene</i>
15:30-15:50	Rim Hadidi (France) <i>PECD on chiral amino-acids</i>	Marko Ćosić (Serbia) <i>Quantum rainbows in positron transmission through carbon nanotubes</i>
15:50-16:30	Coffee break	
	Parallel Session A2 Chair: Milorad Kuraica	Parallel Session B2 Chair: Milan Trtica
16:30-17:00	Tomáš Hoder (Czech Republic) <i>High-resolution High-sensitivity Spectroscopic and Electrical Diagnostics of Barrier Discharges</i>	Miloš Burger (USA) <i>Intense Laser Filament-Solid Interactions from Near-Ultraviolet to Mid-Infrared</i>
17:00-17:20	Vesna Kovačević (Serbia) <i>Diagnostics of dielectric barrier discharges in contact with liquid target</i>	Miloš Skočić (Serbia) <i>Shock wave expansion in laser induced plasma</i>
17:20-17:40	Dejan Maletić (Serbia) <i>Atmospheric plasma jets: development, diagnostics and application for bacteria sterilization</i>	Mirjana Novaković (Serbia) <i>Formation of silver nanoparticles into silicon with mask-assisted ion implantation process</i>
17:40-18:00	Ana Kramar (Serbia) <i>Processing of cellulose textile materials with non thermal atmospheric pressure plasma</i>	Bart Oostenrijk (Sweden) <i>A chemical understanding of the limited site-specificity in molecular inner-shell photofragmentation</i>
18:00-19:30	Poster session (1) - Mezzanine - Club, SASA Posters: 1.1 – 1.7; 2.1 – 2.6; 3.1 – 3.14; 4.1 – 4.5	

Thursday 30 th August 2018		
SPIG 2018 (day 2)		
PL – Plenary lecture: 35+10 min	TL – Topical lecture: 25+5 min	PR – Progres Report: 15+5 min
Plenary Session 3, Hall A, Chair: Bratislav Obradović		
09:00-09:45	Arnaud Bultel (France) <i>Thermochemical non equilibrium in thermal plasmas</i>	
09:45-10:30	Nikolay A. Dyatko (Russia) <i>Influence of nitrogen admixture on plasma characteristics in a DC argon glow discharge and in afterglow</i>	
10:30-11:00	Coffee break	
Plenary Session 4, Hall A, Chair: Goran Poparić		
11:00-11:45	Dejan Milošević (Bosnia and Herzegovina) <i>Atomic and molecular processes in a strong bicircular laser field</i>	
11:45-12:30	SPIG Committee meeting at 12h	
12:30-14:30	Lunch break	
	Parallel Session A3 Chair: Ivan Mančev	Parallel Session B3 Chair: Sanja Tošić
14:30-15:00	Laurence Campbell (Australia) <i>Applications of electron-impact excitation of OH in the Solar System</i>	Dušan Božanić (Serbia) <i>Synchrotron Radiation VUV Angle-Resolved Photoelectron Spectroscopy on Free Nano-Systems</i>
15:00-15:30	Kari Jänkälä (Finland) <i>Theoretical and experimental research of ionic states of atoms with multielectron coincidence detection</i>	Davor Peruško (Serbia) <i>Laser beam modification of multilayered thin film structures</i>
15:30-15:50	Mirjana Vojnović (Serbia) <i>Development of electron impact ionization spectrometer</i>	Nikolai Bezuglov (Russia) <i>Dynamic instability of Rydberg atomic complexes</i>
15:50-16:30	Coffee break	
	Parallel Session A4 Chair: Gordana Malović (Dragana Marić)	Parallel Session B4 Chair: Luka Popović (Milan Dimitrijević)
16:30-17:00	Jon Tomas Gudmundsson (Iceland) <i>Electron heating in electronegative capacitively coupled discharge of complex chemistry</i>	Vesna Borka Jovanović (Serbia) <i>Fundamental plane of elliptical galaxies in f(R) gravity: the role of luminosity</i>
17:00-17:20	James DEDRICK (United Kingdom) <i>Electron heating in radio – frequency hollow cathodes</i>	Vladimir Srećković (Serbia) <i>Atom-Rydberg atom processes in the Broad Line Region of AGN</i>
17:20-17:40	Nikola Ivanović (Serbia) <i>The study of Ar I and Ne I spectral line shapes in the cathode sheath region of an abnormal glow discharge</i>	Dušan Onić (Serbia) <i>Supernova remnants as collisionless shock waves: an overview of theory and observations</i>
17:40-18:00	Lazar Gavanski (Serbia) <i>Measurement of Stark halfwidths of spectral lines of ionized oxygen and silicon, emitted from T-tube plasma</i>	Maša Lakićević (Serbia) <i>Optical and mid-infrared properties of active galactic nuclei and review of dust in supernova remnants</i>
18:00-19:30	Poster session (2) - Mezzanine - Club, SASA Posters: 1.8 – 1.14; 2.7 – 2.12; 3.15 – 3.29; 4.6 – 4.9	

Friday 31 st August 2018		
SPIG 2018 (day 3)		
PL – Plenary lecture: 35+10 min	TL – Topical lecture: 25+5 min	PR – Progres Report: 15+5 min
Plenary Session 5, Hall A, Chair: Milivoje Ivković		
09:00-09:45	Vincenzo Amendola (Italy) <i>Laser assisted synthesis of magneto-plasmonic and UV-vis-NIR plasmonic nanoparticles</i>	
09:45-10:30	Mark Koepke (USA) <i>Interrelationship between lab, space, astrophysical, magnetic-fusion, and inertial-fusion plasma experiments</i>	
10:30-11:00	<i>Coffee break</i>	
Plenary Session 6, Hall A, Chair: Dragana Marić		
11:00-11:45	Jan Hendrik Bredehöft (Germany) <i>Electron-induced chemistry in the condensed phase</i>	
11:45-12:30	Ron White (Australia) <i>Kinetic and fluid modelling of charged - particle transport in gases and liquids and the gas – liquid interface</i>	
12:30-14:30	<i>Lunch break</i>	
	Parallel Session A5 <i>Chair: Igor Savić</i>	Parallel Session B5 <i>Chair: Stevica Đurović</i>
14:30-15:00	Anton Nikiforov (Belgium) <i>Radio-frequency plasmas at atmospheric pressure: from physics of sustaining to materials engineering and biomedicine</i>	Hiroshi Kasahara (Japan) <i>Large Helical Device reveals long time-scale plasma physics</i>
15:00-15:30	Andei Pipa (Germany) <i>Equivalent circuit approach for electrical diagnostics of dielectric barrier discharges</i>	Anđelka Kovačević (Serbia) <i>Periodicity in spectral variability of active galaxies: A diagnostic of physical processes in their center</i>
15:30-15:50	Maja Popović (Serbia) <i>Tuning the plasmonic properties of titanium nitride</i>	Miloš Vlainić (Serbia) <i>Studies of Runaway Electrons in COMPASS Tokamak</i>
15:50-16:30	<i>Coffee break and discussion</i>	
	Parallel Session A6 <i>Chair: Luka Popović (Milan Dimitrijević)</i>	Parallel Session B6 <i>Chair: Zoran Mijatović</i>
16:30-17:00	Paola Marziani (Italy) <i>Quasars: from the Physics of Line Formation to Cosmology</i>	Mohammed Koubiti (France) <i>Spectral modeling of hydrogen radiation emission in magnetic fusion plasmas</i>
17:00-17:20	Edi Bon (Serbia) <i>On the time scales of optical variability of AGN and the shape of their optical emission line profiles</i>	Biljana Stankov (Serbia) <i>Beryllium spectral line studies in the presence of beryllium dust</i>
17:20-17:40	Dimitrios Tzimeas (Greece) <i>Some important notes on ASTA software: a new method for analysis of simple and complex emission/absorption spectral lines</i>	Mioljub Nešić (Serbia) <i>Developing the techniques for solving the inverse problem in photoacoustics</i>
	<i>Free time</i>	
20:00	Gathering and transport to Conference dinner	
20:30	Conference dinner and Closing	

Saturday 1 th September 2018	
10:00-17:00	Excursions (optional, info at registration desk)
17:00	Departure