

CONFERENCE PROGRAMME

Thursday, June 9, 2022

10⁰⁰ – 10³⁰ Welcome speech by the director of Institute of Physics Dr. Aleksandar Bogojević

10³⁰ – 11⁰⁰ Honorary speech, Zoran V. Popović, *Serbian Academy of Sciences and Arts, Belgrade, Serbia*

11⁰⁰ – 11³⁰ **Raman scattering study of the FeSe_{1-x}S_x**, Nenad Lazarević, *Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia*

11³⁰ – 12⁰⁰ **Light scattering in Fe pnictides and chalcogenides**, Rudi Hackl, *IFW Dresden, Dresden, Germany*

12⁰⁰ – 12³⁰ **Spin-lattice correlations at elevated temperatures in EuTiO₃**, Efthymios Liarokapis, *Department of Physics, National Technical University of Athens, Greece*

LUNCH BREAK

14⁰⁰ – 14³⁰ **Symmetries of layered structures**, Božidar Nikolić, *NanoLab, Faculty of Physics, University of Belgrade, Belgrade, Serbia*

14³⁰ – 15⁰⁰ **Nanoscale resistive switching in iridates and manganites**, Borislav Vasić, *Center for Solid State Physics and New Materials, Institute of Physics Belgrade, Serbia*

15⁰⁰ – 15³⁰ **Interplay of anomalous Hall angle and magnetic anisotropy in ferromagnetic topological crystalline insulator thin films**, Rajdeep Adhikari, *Institut für Halbleiter-und-Festkörperphysik, Johannes Kepler University, Linz, Austria*

15³⁰ – 16⁰⁰ **First Principle study of Evolution of Vibrational Modes of FeSe Under Uniaxial Strain**, Jelena Pešić, *Center for Solid State Physics and New Materials, Institute of Physics Belgrade, Serbia*

16⁰⁰ – 16³⁰ **Steps towards ab-initio predictions of electron mobility in materials with strong electron-phonon interaction**, Nenad Vukmirović, *Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia*

COFFEE BREAK

16⁴⁵ – 17¹⁵ **Infrared and Raman Study FeGa₃**, Darko Tanasković, *Institute of Physics University of Belgrade, Belgrade, Serbia*

17¹⁵ – 17⁴⁵ **Effective Medium Theory in Maxwell Garnett Approximation for Structural and Optical Characterization of some Chalcogenide – based Semiconducting Nanomaterials**, Jelena Mitrić, *Institute of Physics University of Belgrade, Belgrade, Serbia*

17⁴⁵ – 18¹⁵ **Suppression of superconductivity and nematic order in FeSe_{1-x}S_x (0 ≤ x ≤ 1)**, Cedomir Petrovic, *Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory, Upton, USA*

WORKSHOP IN STRONGLY CORRELATED ELECTRON SYSTEMS,
BELGRADE JUNE 9–10, 2022

Friday, June 10, 2022

10⁰⁰ – 10³⁰ **A new family of Kitaev materials**, Qingming Zhang, *Lanzhou University, Institute of Physics, Chinese Academy of Sciences, Lanzhou, Gansu, China*

10³⁰ – 11⁰⁰ **Complex oxide heterostructures for efficient spin to charge conversion**, Alberto Pomar, *Instituto de Ciencia de Materiales de Barcelona, Barcelona, Spain*

11⁰⁰ – 11³⁰ **DFT+ Σ 2 method for electron correlation effects at transition metal surfaces and nano-devices**, Miloš Radonjić, *Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia*

COFFEE BREAK

11⁴⁵ – 12¹⁵ **Dynamic tuning of quantum light emission from GaN/InGaN nanowire quantum dots by surface acoustic waves**, Snežana Lazić, *Departamento de Física de Materiales, Instituto 'Nicolás Cabrera' and Instituto de Física de Materia Condensada (IFIMAC), Universidad Autónoma de Madrid, Madrid, Spain*

12¹⁵ – 12⁴⁵ **First-principles exploration of superconducting 2D materials for emerging quantum technologies**, Jonas Bekaert, *Condensed Matter Theory (CMT), Department of Physics & NANOLab Center of Excellence, University of Antwerp, Antwerp, Belgium*

12⁴⁵ – 13¹⁵ **The electric field gradient at ⁵⁷Fe in Fe_{1- δ Te₂}**, Valentin N. Ivanovski, *Department of Nuclear and Plasma Physics, Vinca Institute of Nuclear Sciences, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia*

LUNCH BREAK

15⁰⁰ – 15³⁰ **Nonlinear and dynamic behaviour of exciton-polariton coupling processes in WS₂ nanostructures**, Bojana Višić, *Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia, Solid State Physics Department, Jozef Stefan Institute, Ljubljana, Slovenia*

16⁰⁰ – 16³⁰ **Synthesis and characterization of ternary Van der Waals MoxWx-1S2 nanotubes for advanced field emission application**, Luka Pirker, *Condensed Matter Physics Department, Jozef Stefan Institute, Ljubljana, Slovenia, Department of Electrochemical Materials, J. Heyrovský Institute of Physical Chemistry, Praha, Czech Republic*

16³⁰ – 17⁰⁰ **Influence of magnetism and electron-phonon interaction on lattice dynamics of pure and Co-doped K_xFe_{2-y}Se₂ single crystals**, Marko Opačić, *Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia*

COFFEE BREAK

17¹⁵ – 17⁴⁵ **Suppression of inherent ferromagnetism in Pr-doped CeO₂ nanocrystal**, Novica Paunović, *Institute of Physics Belgrade, University of Belgrade, Belgrade, Serbia*

17⁴⁵ – 18¹⁵ **Fluctuating hexamer precursor to a two-stage electronic transition in RuP**, Emil Bozin, *Condensed Matter Physics and Materials Science Division, Brookhaven National Laboratory, Upton, USA*

18¹⁵ **Closing Ceremony**