

28th International Scientific Conference of Young Scientists and Specialists (AYSS-2024)

Wednesday 30 October 2024

Condensed Matter Physics - 4-456 (14:50 - 16:05)

time	[id] title	presenter
14:50	[1797] Investigation of the cathode materials for metal-ion batteries	Dr SAMOYLOVA, Nataliya
15:20	[1653] Towards a software ecosystem for high-precision multi-scale ab initio relativistic quantum modeling of atoms, molecules, and materials	Dr OLEYNICHENKO, Alexander
15:35	[1685] Modeling layered HTSC with short-range attractive vortex-vortex interaction potentials using Monte Carlo approach	LENKOV, Valerii
15:50	[1747] Laser heating simulation of Au-Si composite structure	SHAFAREVICH, Julia

Condensed Matter Physics - 4-456 (16:30 - 17:45)

time	[id] title	presenter
16:30	[1549] Multiscale modelling of AlN irradiation by swift heavy ions	ЗЕМЛЯКОВА, Мария
16:45	[1560] X-ray diffraction study and modeling of damaged layers in Y3Al5O12 ceramics after swift heavy ions irradiation.	NAZAROV, Artem
17:00	[1658] Study of CuO nanostructures modified with a sequential thermal treatment for photovoltaic applications	FORTUNÉ FÁBREGAS, Silvia María
17:15	[1647] Phase control of Prussian blue analogues for potassium-ion batteries	PONOMAREVA, Olga

Thursday 31 October 2024

Condensed Matter Physics - 4-475 (12:45 - 13:30)

time	[id] title	presenter
12:45	[1506] A comparative study of the effect of the sol-gel, combustion, and solid state reaction methods on the photoluminescence properties of the Zn ₄ B ₆ O ₁₃ :Eu ³⁺ nanophosphors.	SIYALO, Athenkosi
13:00	[1529] INFLUENCE OF HUMIDITY ON THE ELECTROPHYSICAL PROPERTIES AND CHARGE TRANSFER MECHANISM IN NANOSCALE DLC COATINGS	ZUR, Ilya
13:15	[1500] Crystal and thermodynamic properties of Tb ₂ Ni ₂ X (X = Al, Ga)	Ms MPUPA, Zanele Zandile

Condensed Matter Physics - 4-475 (14:50 - 16:05)

time	[id] title	presenter
15:05	[1538] Mössbauer effect in amorphous media	АНТОХИНА, Ксения
15:20	[1693] Ab initio study of chemical shifts of X-ray emission spectra in ytterbium halides by the coupled cluster method	KHADEEVA, Polina
15:35	[1741] X-ray studies of structural ordering in metastable Langmuir monolayer.	MUFTAKHOVA, Lia
15:50	[1628] Structure and dynamics investigation of ibuprofen dimers by DFT method.	GERGELEZHUI, Polina

Condensed Matter Physics - 4-475 (16:30 - 17:30)

time	[id] title	presenter
16:30	[1667] Point defects in FeMe_2O_4 (Me = Fe, Cr) spinels: a DFT+U investigation in the light of experimental data	CHICHEVATOV, Gleb
16:45	[1707] Influence of point defects on charge transport in nickel ferrite NiFe ₂ O ₄	FOMINYKH, Nikita
17:00	[1531] A Silicon Photocathode Protected with Epitaxially Grown SrTiO ₃ for Photoelectrochemical Water Splitting Application	PETKOVIC, Darija
17:15	[1719] EFFECT OF PROTON IRRADIATION ON THE STRUCTURE AND PROPERTIES OF THE Al ₂ O ₃ YSZ COMPOSITE CERAMICS SYSTEM	MALETSKII, Aleksandr

Friday 1 November 2024

Condensed Matter Physics - 134/4-406 (12:45 - 13:30)

time	[id] title	presenter
12:45	[1586] Birdcage resonator for a gradient spin flipper in strong magnetic fields	KURYLEV, Vladimir
13:00	[1666] Structural and vibrational properties of the $\text{Cu}_3\text{Bi}(\text{SeO}_3)_2\text{O}_2\text{Cl}$ francisite at high-pressure	RUTKAUSKAS, Anton
13:15	[1565] Structural and vibrational properties of CoFe_2O_4 and $\text{Zn}_{0.34}\text{Fe}_{2.53}\square_{0.13}\text{O}_4$ ferrites at high-pressure	NGUYEN, Nghiem

Condensed Matter Physics - 134/4-406 (14:50 - 16:05)

time	[id] title	presenter
14:50	[1713] Structural and optical properties of the Sm^{3+} -doped $\text{ZnAl}_2\text{O}_4/\text{ZnO}$ mixed phases synthesized via precipitation method	Ms KHAMBULE, Samkelisiwe Portia
15:05	[1724] Effect of thermal annealing on structure and conductivity of hafnium oxide thin films	KUCHUMOV, Ivan
15:20	[1735] Superconducting magnetic system for gradient spin-flipper with a strong magnetic field	POPOV, Alexander