

BPU11 CONGRESS

Monday 29 August 2022

Poster session: S02, S07, S08, S09, S12 - Restaurant (18:00 - 19:30)

time	[id] title	presenter
18:00	[8] A Parallelized Soft for Lattice QCD Simulations	Prof. XHAKO, Dafina
18:00	[171] Universal patterns of social group growth: a statistical physics approach	Dr MITROVIĆ DANKULOV, Marija
18:00	[255] Evaluation of Thermophysical Properties of Semiconductors by Photoacoustic Phase Neural Network	DJORDJEVIC, Katarina
18:00	[142] Direct Conversion Of Ionizing Radiation Into Electrical Energy Using PIN Diodes	Mr ILIĆ, Stefan
18:00	[283] Steering witnesses for Gaussian quantum states	MIHAESCU, Tatiana
18:00	[169] Topology of evolving networks: the role of growth signals	Ms VRANIĆ, Ana
18:00	[56] Optical spectroscopy of BaF ₂ :Pb ²⁺ crystals	Dr BUSE, Gabriel
18:00	[105] Influence of air and water vapor on EEDF and some active species in atmospheric pressure low temperature helium plasmas: investigation by global model	Dr MLADENOVIĆ, Željko
18:00	[130] Synthesis and characterization of titanium boride coatings fabricated by selective electron-beam surface alloying	Dr VALKOV, Stefan
18:00	[299] Competitive Influence Diffusion Through Social Networks	IFTI, Margarita
18:00	[77] The Magnetic Properties of Bilayer Ising Model in External Magnetic Field	Prof. EKIZ, Cesur
18:00	[34] Existence and dynamics of eigenmodes in linear flux dressed two-dimensional plus lattice	STEPIĆ, Milutin
18:00	[87] Experimental demonstration of coherent beam recombination after controllable beam break-up and filamentation by using optical vortex lattices	Dr STOYANOV, Lyubomir
18:00	[80] Milankovitch cycles, eighty years later	JOVANOVIC, Gordana
18:00	[264] Characteristic Emission of Star-Forming High Redshift Galaxies: Testing the IR Template	Dr BOGDANOSKA, Jana
18:00	[214] Lightcurve Analysis of Asteroids at the Astronomical Station Vidojevica for the first half of 2022	Prof. APOSTOLOVSKA, Gordana
18:00	[185] Mechanical Analysis of Dollar Index Trend	MALIVUK GAK, Dragana
18:00	[150] Cathodes with increased thermoelectronic emission properties	TOPALA, Pavel
18:00	[158] High robustness discrete time quantum random walk search algorithm without marking coin	TONCHEV, Hristo
18:00	[148] Obtaining secondary light radiation under the action of that caused by plasma in the air environment	Prof. TOPALA, Pavel
18:00	[73] Flux densities and spectral indices of Relaxed Double radio galaxy 3C 84	Dr BORKA JOVANOVIC, Vesna
18:00	[208] Scattering and absorption of light by aerosol particles	Dr MICO, Silvana
18:00	[39] Control of group index in two level system by Kerr nonlinearity	PERIĆ, Milica

18:00	[48] Compact localized modes in Dice lattice dressed by artificial flux	MANCIC, Ana
19:29	[166] Determination Of The Temperature Distribution In The Cathode Sheath Region Of Hydrogen Glow Discharge Using R-Branch Of Fulcher- α Band	Prof. MAJSTOROVIC, Gordana
19:29	[91] Experimental study of Ne II spectral lines shapes in the cathode sheath of an abnormal glow discharge	Dr IVANOVIĆ, Nikola NEDIĆ, Nikodin
19:29	[146] Stark shifts dependence on the upper level ionization potential and the rest core charge of the emitter within 3s-np transition arrays	SCEPANOVIC, Mara

Poster session: S10, S11, S14, S15 - Lobby (18:00 - 19:30)

time	[id] title	presenter
18:00	[7] Autumn - diurnal variation of lightning over Black Sea and Bulgaria	Dr PETROVA, Savka
18:00	[220] Verification of EBU-POM regional climate model using E-OBS and ERA5-Land dataset over Pannonian Basin	Mrs LAZIC, Irida
18:00	[312] Introduction of the virtual lab in Physics class	OVANNISIAN, Errikos DIMITSAKIS, Panagiotis
18:00	[304] Evolution in the Semantics of the Term 'Climate'	TAKUCHEV, Nikolay
18:00	[99] Formation of Silver Selenide and Copper Selenide synthesized by Pack Cementation and Mechanical alloying processes	STATHOKOSTOPOULOS, Dimitrios
18:00	[281] Extending the MVD model and produce a video to foster students' understanding of climate change	PELEKAS, Lazaros
18:00	[112] Introducing Wetting Models in Science Club	Mrs ARVANITOU, Efthymia
18:00	[15] Work with motivated and gifted students in physics in RCT "Mihajlo Pupin" from Pancevo – a review of the last 15 years	Dr CUCIĆ, Dragoljub
18:00	[191] Lidar Investigation and Mapping of Aerosol Loadings above Sofia, Bulgaria	Dr DREISCHUH, Tanja
18:00	[305] The High-Energy Positive Solar Particles Invading Earth with Contribution to the Mortality from Ischemic Heart Diseases?	TAKUCHEV, Nikolay
18:00	[36] Developing an integrated Urban Heat Island Forecasting and Heat Health Warning System for selected Mediterranean urban areas	PARLIARI, Daphne
18:00	[211] The evaluation of vulnerability to extreme climate events over Balkan Peninsula using modified Climate Extremes Index	TOSIC, Milica
18:00	[212] Three decades of heat waves and extreme precipitation in Albania	Dr PORJA, Tanja
18:00	[209] Realization problems in the Individualized Educational Plan of physics teaching in elementary schools in Serbia	Ms POPOVIĆ, Jelena
18:00	[118] Wetting and Roughness of Surfaces As Biomimetic Concepts in Teaching – A Proposal for Science Clubs	Mr STEFANIS, Michail Mrs TSIRIGOTI, Emmanouela
18:00	[97] Representation of history of science in teaching physics: Students' knowledge about physics scientists	ČAVIĆ, Milan
18:00	[110] A Proposition for the Introduction of the Lotus Effect in Secondary Education	Mr PELEKAS, Lazaros
18:00	[291] The way we teach: The cases of backward pedagogy, through prototyping and aiming for the societal benefits	LASTOVICKA-MEDIN, Gordana
18:00	[206] Experimental study of a circular motion by smartphone technology	Mrs OPINGARI, Ingrid
18:00	[47] Inquiry Based Learning Approach in Teaching "Phase Transitions" for Experimental Skills Formation in 16 Years Old Students	Mrs DANIELA, Ivanova

18:00	[54] Some challenges for teachers in natural sciences in the context of distance learning during the Covid 19 pandemic	Prof. RAYKOVA, Zhelyazka
18:00	[248] Tailoring the photocatalytic properties of anatase TiO_2 by B - TM ($\text{TM} = \text{Pt}, \text{Ta}, \text{V}$) co-doping	IVANOVSKI, Valentin N.
18:00	[21] Investigation of the Dst variations in X component at mid latitudes during geomagnetic storm in 3 February 2022	Dr BOJILOVA, Rumiana
18:00	[37] Development of a Monitoring and Forecasting Air Quality Modelling System	Ms PAPADOGIANNAKI, Sofia
18:00	[28] Spatial distribution of the magnetic disturbances at European midlatitudes during substorms: case study	Prof. GUINEVA, Veneta
18:00	[177] International Physics Olympiads as effective resources of knowledge source for high school students	MANOLEV, Stojan
18:00	[156] Seasonal distribution of lightning over Bulgaria and Black Sea and its relationship with sea surface temperature	Prof. MITZEVA, Rumjana
18:00	[193] Evaluation of low-cost air quality measuring devices - Klimerko	ALEKSANDROV, Neda
18:00	[126] Determination of maximal expected magnitude of the main neotectonic zones in North Macedonia	DROGRESHKA, Katerina
18:00	[141] Preliminary results on the multifractal nature of the main geomagnetic field	Dr PEQINI, Klaudio
18:00	[151] Synthesis and Characterization of Mg_2Si and Al doped Mg_2Si formed by Pack Cementation process	Dr STATHOKOSTOPOULOS , Dimitrios
18:00	[107] Hierarchical Structure and the Rose Petal Phenomenon. A Proposition for Educational Reconstruction in Secondary Education.	Mr KALANTZIS, Ioannis
19:29	[109] System for monitoring and acquisition of physical processes dynamics: the decomposition of CaCO_3 tablets in deionized water	PETRONIJEVIĆ, Ivan

Tuesday 30 August 2022

Poster session: S01, S04, S06 - Restaurant (18:00 - 19:30)

time	[id] title	presenter
18:00	[326] Effective field theory approach to low temperature thermodynamics of two-dimensional O(3) ferromagnets	RADOŠEVIĆ, Slobodan
18:00	[238] Investigating the degradation effects of a compartment fire protocol on wall-paintings	MALLETZIDOU, Lamprini
18:00	[138] Superconducting Quantum Interference Proximity Transistor (SQUIPT)	Ms PRTENJAK, Teodora
18:00	[90] Simulations of phonon-limited electron mobility in II-VI semiconductors	VUKMIROVIĆ, Nenad
18:00	[5] Magnetic Hyperthermia Potential of Colloidal Zinc-substituted Iron Oxide Nanoparticles and TiO ₂ @Zinc Ferrite Hybrids	Dr JOVIĆ ORSINI, Nataša
18:00	[13] Semi-flexible interacting self-avoiding polygons on 3-simplex lattice	MARČETIĆ, Dušanka
18:00	[43] Tubular structures of magnetic particles: platform for curvilinear nanomagnetism	Dr STANKOVIĆ, Igor
18:00	[58] Long-ranged Cu-based order at cuprate/manganite interface	Dr GAINA CAPU, Roxana
18:00	[45] Non-equilibrium molecular dynamics investigation of a model ionic liquid lubricant for heavy-duty applications	STANKOVIĆ, Igor
18:00	[49] Crystallization of sodium chlorate crystals by evaporation in a magnetic field	MILOJEVIC, Milica
18:00	[120] Cosmic-ray induced background of shielded HPGe detector	VELIMIROVIC, Danijel
18:00	[159] Effect of Yttrium Substitution on Structural Properties of nanopowder nickel ferrites: X-Ray and Raman studies	JANKOV, Stevan
18:00	[172] Computational study of lead selenide doped with group IIIA elements	TOTH, Elvira
18:00	[14] Slow and fast relaxation times of quantum lattice model with local multi-well potentials: Phenomenological dynamics for $\text{Sn}_2\text{P}_2\text{S}_6$ ferroelectric crystals	Mr ERDEM, Rıza
18:00	[272] Generalized Haldane Model and Molecular Excitons' Spectra	LALOV, Ivan
18:00	[66] Determination of ²²⁶ Ra and ²²² Rn content in thermomineral water and assessment of radiation risk	KNEZEVIC RADIC, Jovana
18:00	[216] Bose-Einstein condensate - Tunneling	PEJIĆ, Emilija
18:00	[252] Planar surfaces of point dipoles as a platform for 2d magnetic structure research	RODRIGUEZ SOTELO, Sindy Julieth
18:00	[133] Superconductor in a weak time-dependent magnetic field	Dr IVANOVIĆ, Krsto
18:00	[310] The dwell time of electron tunneling through a multi-barrier quantum structure based on graphene	BĂLȚĂȚEANU, Doru Marcel
18:00	[46] Influence of magnetic field on the growth mechanisms of sodium chlorate crystals	Ms MILOJEVIĆ, Milica Dr VUČETIĆ, Branislava
18:00	[245] Radiation dosimetry applications based on silicate minerals extracted from dried oregano	KARAMPIPERI, Maria
18:00	[157] Terahertz Radiation from the BSCCO Single Crystal in resonance region	IVANOVIĆ, Krsto
18:00	[104] Polymer nanocomposites filled with core-shell nanoparticles for nanodielectric application	PETRONIJEVIĆ, Ivan

18:00	[131] Josephson current in d-wave superconductor junctions with inhomogeneous ferromagnet	POPOVIĆ, Zorica
18:00	[167] Synthesis, Structural and Electrical Properties of SWCNT Thin Film Electrodes - First Results	SILJEGOVIĆ, Mirjana
18:00	[155] Nonrelativistic energy spectra of three-particle systems calculated in the adiabatic approach by using finite difference method	DANEV, Petar
18:00	[165] Muonium formation in collisions of positively charged muons with hydrogen and helium atoms	Prof. MILOJEVIĆ, Nenad
18:00	[240] Towards the Discrimination between Natural and Synthetic Pigments: The Case of Ultramarine	POURLIAKA, Anastasia
18:00	[4] Shannon Entropy for Ground State of Harmonium in Spherically Confined Plasma	SIMIĆ, Milena
18:00	[57] Radioactivity Measurements of Ceramic Tiles Produced in Serbia	Prof. KUZMANOVIĆ, Predrag
18:00	[222] Detection of ionizing particles with monolith scintillator and segmented photodetector	IVANOV, Simeon
18:00	[76] Alternating-Basis Quantum Monte Carlo Method for Strongly Correlated Electrons	Dr JANKOVIĆ, Veljko
18:00	[117] Experimental determination of the energy dependence of the rate of negative muon transfer reaction $\mu^- + O \rightarrow p + \mu^- + O$	Prof. BAKALOV, Dimitar
18:00	[181] Mobility of Holstein polaron from real and imaginary time quantum Monte Carlo calculations	MILADIC, Suzana
18:00	[160] Drift velocity of the electron transport in RF electromagnetic field in N_2 gas	Mrs STANKOVIĆ, Violeta
18:00	[241] Monastery of the Ascension, Elassona, Mount Olympus, Greece: Characterization of Late Post-Byzantine Wall Paintings	PATSIATZI, Efthalia
18:00	[218] Midgap state in silicon carbide monolayer induced by atom adsorption	OROZOVIĆ, Marko

Poster session: S03, S05, S13 - Lobby (18:00 - 19:30)

time	[id] title	presenter
18:00	[180] Support vector machine for evaluation of autofluorescence cancer diagnostic parameters	ZAHARIEVA, Lidia
18:00	[71] Analysis of the strange particle transverse flow in relativistic heavy-ion collisions	RISTEA, Oana
18:00	[289] The way we succeed in our research within LGAD R&D enabling real time and 4D tracking for LHC-HL, by designing the scientific tools and performing the experiments at the European Research Infrastructures: The case of Montenegro RD50 group	LASTOVICKA-MEDIN, Gordana
18:00	[144] Measurement of the $\sigma \times BR(H \rightarrow ZZ^*)$ at 350 GeV and 3 TeV center-of-mass energies CLIC	MILUTINOVIC DUMBELOVIC, Gordana
18:00	[65] On the quarks transverse momenta in SIDIS experiments	STOILOV, Michail
18:00	[101] On Various Aspects of DBI Lagrangian Dynamics and its Mechanical and Cosmological Realization	POPOVIĆ, Milan
18:00	[270] On a gauge invariant variable for scalar perturbations during inflation	VESIĆ, Nenad
18:00	[134] The dependence of the radiation dose on the angle and the field size for radiation beam with energy 18 MV.	Dr SELMANI, Idajet

18:00	[268] Lipid content changes in cancerous and non-cancerous cells induced by ZnO nanoparticles: Raman spectroscopy approach	MILETIĆ, Mirjana
18:00	[215] Hardware and Physics Studies at KAHVELab	GÖKTÜRK, Berare
18:00	[195] The ATLAS New Small Wheels for LHC Run3	Ms PERGANTI, Maria
18:00	[258] Progress on characterizatin of LGAD sensors for the ETL	MARKOVIC, Lazar
18:00	[78] Collective modes of gluon in an anisotropic thermo-magnetic medium	KARMAKAR, Bithika
18:00	[108] The production of particles with well determined angular momentum in external Coulomb field on de Sitter expanding universe	BALOI, Mihaela
18:00	[100] Determination of CPV Higgs mixing angle in ZZ-fusion at 1.4 TeV CLIC	VUKASINOVIC, Natasa
18:00	[83] Study of mass hierarchy in heavy flavor suppression	ILIC (BLAGOJEVIC), Bojana
18:00	[263] Determination of spatial resolution of nonlinear laser scanning microscopy	BUKUMIRA, Marta
18:00	[224] Polarimetric characterization of collagenosis tissue samples	ILYOV, Stoyan
18:00	[266] Upgrade and extensive hardware and software tests of the CMS ECAL detector for the upcoming LS3	Dr MILENOVIC, Predrag
18:00	[154] Application of Multivariate Analysis in Separation of Higgs Boson Signal at future e+e- colliders	RADULOVIC, Mirko
18:00	[116] Measurement of the Higgs to $\gamma\gamma$ branching fraction at 3 TeV CLIC	KACAREVIC, Goran
18:00	[186] Pigmented skin lesions assessment with optical coherence tomography	Ms MIRCHEVA, Victoria
18:00	[267] Neural network distributed training and optimization library (NNLO)	VELJANOVIC, Irena
18:00	[262] Analysis of deposit accumulated on electrode samples in the course of CSC longevity tests using 40% Ar, 50% CO ₂ and 10%CF ₄ gas mixture	Dr MILOVANOVIC, Dubravka
19:15	[27] Evaluation of the influence of some polymers on the physical stability of lipid self- double emulsifying systems with Alendronate Sodium	PEHLIVANOV, Ivaylo