

## ZOZNAM POSTEROV 21. KČSF

- P01-S. Abbasi\*, J. Mlynar, V. Svoboda, J. Chlum1, J. Svoboda, J. Brotankova**  
Tomographic Reconstruction of Radiation Distribution in the GOLEM Tokamak Plasma Using Fast Visible Cameras
- P02-Ishaan Ahuja\***  
Multi-strange particle production in p-Pb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV with ALICE at the LHC
- P03-J. Brestenský\*, E. Filippi, H. P. Rani, N. Krishnendu**  
The fastest growing modes in Rotating Magnetoconvection with anisotropic diffusivities in the Earth's Core Conditions
- P04-A. Búcsi\*, A. Čelková, M. Klacsová, J. Carlos Martínez, D. Uhríková**  
Interakcia bocepreviru s modelovými membránami
- P05-P. A. Khlyenko\*, S. Kern, P. Nelinger, M. Grajcar**  
A simple method for the estimation of nonlinear superconducting waveguides properties
- P06-S. Ďurčányová\*, M. Stano, M. Stupavská, P. Ďurina, M. Zahoran, A. Zahoranová, D. Kováčik**  
Atmospheric-pressure plasma polymerization: an alternative method of functional layer preparation
- P07-M. Človečko, K. Goliaš\*, O. Podopryhora, P. Skyba**  
Teplotná závislosť nestabilít duffingovho rezonátora na báze sn-whiskera pri nízkych teplotách
- P08-P. Hockicko\*, J. Kúdelčík**  
Video analysis in teaching physics
- P09-M. Chovancová\*, A. Búcsi, D. Uhríková**  
Kinetika kondenzácie dna v prítomnosti dopc a ddao v kyslom prostredí
- P10- D. Košovský\*, M. Miglierini, J. Dekan, J. Degmová**  
Vplyv žihania na zmenu mikroštruktúry v ODS oceliach
- P11-M. Kuťka\*, S. Ďurčányová, P. Šrámková, M. Stano, Ľ. Slováková, S. Kyzek, E. Gálová, V. Medvecká, D. Kováčik, A. Zahoranová**  
Application of cold atmospheric pressure plasma in agriculture: germination improvement and surface disinfection
- P12-J. Leja\*, Š. Gmuca**  
Teoretické mapovanie neutrónovej hranice stability
- P13-V. Lisý\*, J. Tóthová**  
Dynamics of brownian particles in fluids with time-dependent friction
- P14-D. Mašlárová\*, B. Martinez, M. Vranic**  
Generovanie a urýchľovanie pozitronov ultraintenzívnym laserovým impulzom v plazmovom kanáli
- P15-M. Matys\*, O. Klimo, J. Pšikal, M. Jirka, J. Proška, M. Kuchařík, J. Nikl, M. Kecová, G. Korn, S. V. Bulanov**  
Plazmová závěrka pro urychlování iontů laserem
- P16-P. Mészáros\***  
Effects of exotic solid-like matter in the early universe
- P17-O. Mezhenska\*, J. Bielcik, L. Kosarzewski**  
Upsilon - hadron azimuthal correlations in pythia-simulated proto-proton collisions at 500 GeV
- P18-D. Michálek\*, Z. Garaiová, M. Kopáni, D. Kosnáč, T. Hianik**  
The study of the interactions of iron-based magnetic nanoparticles with liposomes using dynamic light scattering method

**P19-S. Mikuličová\*, V. Šubjaková, T. Hianik**

Vplyv NaCl a penicilínu na termodynamické vlastnosti a sekundárnu štruktúru dna aptamérov

**P20-P. Neilinger\*, T. Štěpka, K. Bublikov, J. Dérer, M. Grajcar, M. Mruczkiewicz**

Ferromagnetic resonance in permalloy nano-rectangles

**P21-L. Ondriš\*, A. Baran, L. Popovič, H. Peidayesh, O. Fričová**

XRD and DMA study of TPS/PBAT blends with different component ratio

**P22-M. Kládiová, J. Onufer, J. Ziman, P. Duranka**

Effect of tensile stress on domain wall dynamics in bistable magnetic microwire

**P23-K. Paulovičová\*, J. Tóthová, M. Rajňák, B. Dolník, P. Kopčanský, M. Timko**

In situ dielectric-rheological study of a dielectric liquid-based ferrofluid

**P24-M. Človečko, K. Goliaš, O. Podopryhora\*, P. Skyba**

“PLUG-IN & COOL” jadrový demagnetizačný stupeň pre suché 3He/4He refrigerátory

**P25-M. Rajňák\*, K. Paulovičová, B. Dolník, R. Cimbala, J. Kurimský, M. Franko, M. Timko, Peter Kopčanský**

Cooling performance of nano-functionalized biodegradable oil in a power transformer

**P26-S. Sapařová, O. Fričová, N. Šmídová, I. Chodák, M. Kovařáková\***

Effect of component ratio on molecular mobility in thermoplastic starch/PBAT blends studied using NMR

**P27-B. Stachová\*, J. Blaško, J. Országh, S. Bromley, D. Bodewits, Š. Matejčík**

Electron impact excitation of carbon monoxide

**P28-J. Tóthová\*, K. Paulovičová, B. Jameel, M. Rajňák, M. Molčan, R. Bielas, A. Józefczak**

Rheology of magnetic pickering emulsions

**P29-O. Turutanov\*, A. Korolev, M. Baranek, S. Kern, V. Lyakhno, P. Neilinger, M. Grajcar**

Designing a cell and cold amplifier for quantum measurements

**P30-N. Yurkovych\*, M. Mar'yan, V. Seben**

Fractality formation of the gradient-modified thin films  $\langle \text{Ge}_2\text{S}_3:\text{X} \rangle (\text{X}=\text{Al, Bi, Pb, Te})$  by self-organized processes

**P31-T. Blažek, P. Maták, V. Zaujec\***

Unitarity constraints, thermal masses, and their cylindrical diagrammatic representation in leptogenesis

**P32-J. Kravčák\*, P. Vrábel**

Analysis of the magnetic domain structure in CoFeSiB and CoSiB wires

**P33-A. Kravčáková\*, J. Vrláková, M. Vařa, A. Juhásová**

Non-formal education projects in nuclear physics

**P34-D. Kamas, A. Opichal, E.V. Chernysheva,, A. V. Gulyaev, A. V., M. Holik, J. Kliman\*, A. B. Komarov, L. Krupa, A.S. Novoselov, A.V. Podshibyakin, A.M. Rodin, V.S. Salamatin, S.V. Stepanov, V. Yu. Vedenev, and S. A. Yukhimchuk**

Evaporation-residue cross sections in complete fusion reactions with  $^{36,40}\text{Ar}$  and  $^{40,48}\text{Ca}$  projectiles leading to Hg and Rn isotopes

**P35-R. Plašil\*, S. Rednyk, L. Uvarova, Š. Roučka, P. Dohnal and J. Glosík**

Isotopic exchange in reactions of hydroxyl anion with deuterium hydride at low temperatures from 15 up to 300 K

**P36-V. Rathour, M. S. Gaur, S. Il'kovič\*, M. Kumar Roy**

Investigation of structural and thermal properties of PVDF@MG-MOF nanocomposites

**P37-L. Kotvytska\*, R. Tarasenko, O. Lyutakov, M. Erzina, M. Orendáč, A. Orendáčová**  
Comparison of thermal and magnetic properties of CU-ZIF-8 samples prepared by two different methods

**P38-O. Pavelka, K. Kvaková, P. Cígler, J. Valenta\***  
Brightening gold by gold: Synergy of two gold nanoallotropes in a precisely fabricated nanocomposite structure