

PHYCONBA 2024 Programme

Thursday, September 26

9:00-9:30 Registration

9:30-9:40 Opening Ceremony

9:40-10:30 Lambe Barandovski, **ATMOSPHERIC HEAVY METAL DEPOSITION IN MACEDONIA FROM 2002 TO 2020 STUDIED BY MOSS BIOMONITORING**

10:30-10:45 Adnan Beganović, Amer Ajanović, Azra Gazibegović-Busuladžić, Haris Đapo, **OPTIMIZABLE MONTE CARLO SHIELDING EVALUATION COMPARED TO CONVENTIONAL CALCULATION IN MEDICAL LINEAR ACCELERATORS**

10:45-11:00 Bahrudin Trbalić, Nudžeim Selimović, Selver Pepić, Lejla M. Čiva, **IMPLEMENTATION OF INNOVATIVE TECHNOLOGIES IN PHYSICS EDUCATION IN B&H: A PILOT STUDY**

11:00-11:15 Ivana Štibi, Mojca Čepič, Jerneja Pavlin, **COMPARISON OF ACQUIRED PHYSICS KNOWLEDGE BEFORE, DURING AND AFTER THE COVID-19 PANDEMIC: RASCH MODEL**

11:15-11:45 Coffee break

11:45-12:35 Nenad Simonović, **CURRENT RESEARCH IN THE LABORATORY FOR ATOMIC COLLISION PROCESSES AT IPB**

12:35-12:50 Emina Džaferović Mašić, **GAUGE COUPLING UNIFICATION IN CORRELATION STUDY OF PROTON DECAY**

12:50-13:05 Majra Šišić Čaluk, Dino Habibović, Dejan B. Milošević, Benjamin Fetić, **STRONG-FIELD APPROXIMATION VS NUMERICAL SOLUTION OF THE TIME-DEPENDENT SCHRÖDINGER EQUATION: QUANTITATIVE AND QUALITATIVE ANALYSIS**

13:05-13:20 Rifat Omerović, Hedim Osmanović, **FIXED-T ANALYTICITY AS A CONSTRAINT IN SINGLE ENERGY PARTIAL WAVE ANALYSIS OF PION ELECTROPRODUCTION DATA**

13:20-14:30 Lunch

14:30-15:20 Eden Steven, Danica Krstovska, Daniel Suarez, Tasya Berliani, Eric Jobiliong, Eun Sang Choi, **ORGANIC BILAYER FILMS FOR SIMULTANEOUS TORQUE-TRANSPORT MEASUREMENTS**

15:20-15:35 Almedina Modrić-Šahbazović, Zerina Sakić, Maja Đekić, Senad Isaković, Amra Salčinović Fetić, Izet Gazdić, Aida Smajlagić, **INVESTIGATION OF THE MORPHOLOGY AND OPTICAL PROPERTIES OF MULTILAYER ZnO NANOFILMS ON DIFFERENT SUBSTRATES**

15:35-15:50 Bono Lučić, Viktor Bojović, Antonija Kraljević, Jadranko Batista, **IMPROVED METRICS AND PROCEDURES FOR THE VALIDATION OF MACHINE LEARNING MODELS FOR IMAGE RECOGNITION AND ANALYSIS**

15:50-16:05 Jelena Vukalović, *Jelena B. Maljković, Francisco Blanco, Gustavo Garcia, Bratislav P. Marinković*, **STUDY OF ELASTIC ELECTRON SCATTERING FROM HALOGENATED ANESTHETIC MOLECULES IN GASEOUS PHASE AT 50 eV ELECTRON ENERGY**

16:05-18:00 Coffee break, poster session and philatelic exhibition

Friday, September 27

9:00-9:20 Elvedin Hasović, Maja Đekić, **PRESENTATION OF THE PROJECT OF MODERNIZATION AND INFRASTRUCTURE RENOWAL AT THE UNIVERSITY'S OF SARAJEVO PHYSICS DEPARTMENT**

9:20-10:00 **LABORATORIES TOUR**

10:00-10:10 **CLOSING CEREMONY**

10:10 **EXCURSION TO TREBEVIĆ BY CABLE CAR**