

Programme

Thursday, September 10, 2026

**Venue: Faculty of Science, University of Sarajevo
(Zmaja od Bosne 33-35, Sarajevo)**

- 8:30-9:00 Registration**
- 9:00-9:15 Opening ceremony**
- 9:15-10:00 Damir Pajić, Mirta Rubčić, Edi Topić, Pavla Šenjug, Dario
Barišić, Nikola Miše, Krešo Zadro, Marina Cindrić**
- MAGNETISM IN MULTIFUNCTIONAL METAL-
ORGANIC ARCHITECTURES OF DIFFERENT
DIMENSIONALITIES**
- 10:00-10:15 Mislav Mustapić, Domagoj Belić, Denis Stanić, Zvonko
Glumac, Dino Galić, Maja Molnar, Nikola Španić, Md
Shahriar Al Hossain,**
- NANOCOMPOSITE CELLULOSE MATERIALS
FOR SENSING APPLICATIONS**
- 10:15-10:30 Josip Bajo, Benjamin Braun, Philipp K. Jenke, Chiara
Trovatello, Philip Walther, Lee A. Rozema,**
- DIRECT QUANTUM STATE GENERATION IN
LAYERED SEMICONDUCTORS**
- 10:30-10:45 Emir Karamehmedović, Benjamin Fetić,**
- DEVELOPMENT OF A COMPACT DIODE-
PUMPED 1342 NM ND:YVO₄ LASER SOURCE**
- 10:45-11:30 Coffee break and poster session**
- 11:30-12:15 Ljubiša Nešić,**
- QUANTUM MECHANICS OVER THE FIELD OF
p-ADIC NUMBERS AS A GENERALIZATION OF
STANDARD QUANTUM MECHANICS**

- 12:15-12:30 Amel Duraković,
**ADDRESSING THE MISSING MATTER PROBLEM
WITH AETHER-SCALAR-TENSOR THEORY**
- 12:30-12:45 Rifat Omerović, Jusuf Salić, Hedim Osmanović, Jugoslav Stahov,
**DETERMINATION OF $\pi\pi\rightarrow NN$ PARTIAL WAVES
IN THE REGION $t>4m_\pi^2$**
- 12:45-13:00 Jelena Vukalović, Bratislav P. Marinković, Francisco Blanco, Gustavo García, Jelena B. Maljković,
**MOMENTUM TRANSFER CROSS SECTIONS FOR
ELASTIC ELECTRON SCATTERING FROM
HALOTHANE**
- 13:00-13:15 Benjamin Fetić, Dejan B. Milošević,
**ROLE OF THE COULOMB POTENTIAL IN
ATTOCLOCK MEASUREMENTS**
- 13:15-14:30 **Lunch and poster session**
- 14:30-15:00 Martina Grubeša, Antonija Kraljević, Jadranko Batista, Bono Lučić,
**COMPARISON OF STRUCTURAL ATTRIBUTES
IN MODELS FOR PREDICTING PROTEIN
CRYSTALLISABILITY AND FOLDING RATE**
- 15:00-15:15 Antonija Kraljević, Jadranko Batista, Bono Lučić,
**IMPROVING PROTEIN FOLDING RATE
MODELS BY APPLYING A MORE RIGOROUS
VALIDATION PROCEDURE AND
INTRODUCING NEW DESCRIPTORS BASED ON
PRIMARY AND SECONDARY STRUCTURE**
- 15:15-15:30 Šabeta Amra, Toroi Paula,
**ADDRESSING CALIBRATION CHALLENGES IN
MEDICAL X-RAY DOSIMETRY: THE TraMeXI
PROJECT**

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- 15:30-15:45** Lejla M Čiva, Mario Medvedec
**MONTE CARLO MODELLING OF A
GERMANIUM DETECTOR IN A SHADOW-
SHIELD WHOLE-BODY COUNTER**
- 15:45-16:00** Faruk Razić, Emina Džaferović - Mašić,
**TARGET PENETRATION ASSESMENT OF
KINETIC ENERGY PROJECTILES ON STEEL
AND MEAT-BONE TARGET**
- 16:00-16:15** Ivana Štibi, Marija Gaurina, Ivana pavičić, Josip Stepaić,
**PHYSICS-FORWARD ESG LEARNING IN
CROATIAN CLASSROOMS**
- 16:15** **Closing ceremony**

Friday, September 11, 2026

- 8:45-10:00** **Laboratories tour, Physics Department, Faculty of Science,
University of Sarajevo**

Posters

- Damir Agačević,
**SADDLE-POINT AND PARTIAL-WAVE ORIGINS OF
VORTEX SPIRALS IN THE PHOTOELECTRON
MOMENTUM DISTRIBUTION**
- Almedina Modrić-Šahbazović, Zerina Sakić, Lejla Babajić, Sanjin
Gutić, Maja Đekić,
**ASSESSMENT OF SURFACE FREE ENERGY AND
ADSORPTION PERFORMANCE IN DIP-COATED CUO
THIN FILMS**
- Kerim Hrvat, Melisa Baždar, Amra Salčinović Fetić,
**PREPARATION OF METALLIC GLASS SAMPLES FOR
SEM-EDS ANALYSIS**
- Zerina Sakić, Almedina Modrić-Šahbazović, Lejla Dedić, Negrin
Halilović, Maja Đekić
**STRUCTURAL AND OPTICAL ANALYSIS OF SPIN-
COATED ZnO:Al THIN FILMS**
- Irma Didović, Arnela Hrustemović, Zorana Ilić, Din Avdispahić,
Armana Halilović,
**TRENDS IN RADIOLOGICAL EXPOSURE IN THE
FEDERATION OF BOSNIA AND HERZEGOVINA:
FROM THE FOOD CHAIN TO OCCUPATIONAL
PROTECTION**
- N. Caner Duren,
**IMPACT OF NEUTRINO MAGNETIC MOMENT ON
NEUTRINO-INDUCED BACKGROUND
CHARACTERIZATION IN THE LEFT FRAMEWORK
WITH GENIE AND GEANT4**
- Emina Džaferović-Mašić, Mijo Matković,
**SEIZABLE TWO-BODY PROTON DECAY WITHIN
NON-SUPERSYMMETRIC MODELS**

- Dino Habibović, Dejan B. Milošević,
**PHASE-OF-THE-PHASE SPECTROSCOPY IN
TAILORED LASER FIELDS**
- Admir Greljo, Nafija Ibrišimović, Mirsad Tunja
**FERMION-PAIR PRODUCTION AT FUTURE
CIRCULAR ELECTRON-POSITRON COLLIDER**
- Bojan Kovacevic, Slobodanka Galovic, Katarina Lj. Djordjevic,
**COMPARATIVE STUDY OF TIME-FRACTIONAL
OPERATORS IN HEAT CONDUCTION MODELS FOR
MEDIA WITH DIVERSE THERMAL CONDUCTION
MECHANISMS**
- Milica M. Milojević, Dragana A. Malivuk Gak, Branislava M.
Vučetić, Biljana Z. Maksimović, Andrijana A. Žekić,
**INFLUENCE OF A STATIC MAGNETIC FIELD ON THE
GROWTH RATES OF KDP CRYSTALS**
- Amina Mević, Senka Krivić,
**A PHYSICS-CONSISTENCY VALIDATION
FRAMEWORK FOR VIRTUAL METROLOGY SYSTEMS**
- Nenad Milojević, Danilo Delibašić, Ivan Mančev, Miloš Milenković,
**K-SHELL SINGLE-ELECTRON CAPTURE IN
COLLISIONS OF 6 MEV PROTONS WITH ARGON
ATOMS**
- Iva Movre Šapić, Andrej Vidak, Ema Pavić, Vanes Mešić,
**IMPACT OF AUGMENTED REALITY APPLICATION
ON CONCEPTUAL UNDERSTANDING OF NEWTON'S
LAW OF GRAVITATION**

- Nedžadeta Mutapčić, Semir Čohodarević,
**ESTABLISHMENT OF A SYSTEM FOR THE
REALIZATION OF THE ARGON TRIPLE POINT
(−189.3442 °C) AT IMBIH**
- Zoran Rajilić,
**MONTH-LONG LOWERING THE INSTABILITY
LEVEL INFLUENCING STOCK MARKETS
SIGNIFICANTLY**
- Zerina Sakić, Dijana Dujak, Ljupka Budinski-Petković, Ivana
Lončarević, Aleksandar Karač
**JAMMING AND PERCOLATION IN SEEDED GROWTH
MODEL ON TRIANGULAR LATTICES WITH MIXED
IMPURITIES: A MONTE CARLO STUDY**
- Damir Starešinić, Katica Biljaković, Suada Sulejmanović, Amra
Salčinović Fetić,
**INFLUENCE OF SURFACE CRYSTALS ON THE
PROPERTIES OF THE $\text{Ni}_{23}\text{Zr}_{77}$ METALLIC GLASS**
- Samuel Powers, Dino Škrgić, Dejan Stojkovic,
**QUANTUM HARMONIC OSCILLATOR FROM BINARY
SEQUENCES: EMERGENCE OF INTERFERENCE,
DISCRETE SPECTRA, AND FERMIONIC
THERMODYNAMICS**
- Admir Greljo, Ajdin Palavrić, Mirsad Tunja, Jure Zupan,
**EFFECTIVE FIELD THEORY APPROACH TO HIGH-
MULTIPLICITY MUON DECAYS**
- Andrej Vidak, Iva Movre Šapić, Vanes Mešić,
**IMMERSIVE VIRTUAL REALITY IN TEACHING
ABOUT PHYSICS: TRENDS, PARTICIPANTS,
LEARNING ENVIRONMENTS, AND PHYSICS TOPICS
IN EARLIER RESEARCH**
- Tomislav Žić, Ivana Štibi,
ANALEMMATIC SUNDIAL