

Session Program

28 September 2026 to 2 October 2026



School of XFEL, Synchrotron and Neutron Radiation Users - SFEL2026

POSTER

Congress Centre ACADEMIA

Stará Lesná 176 059 52 Stará Lesná Slovakia GPS Location: 49°09'06.8"N, 20°17'12.4"E

Wednesday 30 September

18:00

POSTER: Session - 11

Poster Session | **Location:** CC Academia, Banquet Hall | **Conveners:** Karel Saksl, Prof. Pavol Sovák

Biofunctional Surface Engineering of CoFe_2O_4 Nanoparticles for Enhanced Magnetic Particle Hyperthermia

Speaker

Dr Ľuboš Nagy

Spacer-dependent self-assembly of urea-based gemini surfactants and their application in templating ordered mesoporous silica

Speaker

László Almásy

Alternative anode materials for LIBs based on hard carbon

Speaker

aleksander adam Krobisz

Element-Specific Local Structural Disorder in $(\text{MgCoNiCuZn})\text{O}$ High-Entropy and Related Oxides

Speaker

Julija Lukaševiča

Experimental phase diagram and quantum Monte Carlo modeling of $\text{Cu}(\text{pm})(\text{ea})_{2\%}$: a candidate for a magnetic Berezinskii-Kosterlitz-Thouless transition

Speaker

Illia Kozin

Influence of Structure on Heat Capacity and Thermal Conductivity of $\text{Dy}_x\text{Y}_{1-x}(\text{PO}_3)_3$ Phosphate Glasses

Speaker

Vladyslav Stadnyk

X-ray-Beam-Induced Local Structural Changes in WO_3 Nanoparticles Revealed by RMC-EXAFS

Speaker

Vitalijs Dimitrijevs

Complementary synchrotron X-ray diffraction and Mössbauer investigation of mechanically alloyed Fe-Mn-based amorphous powders

Speaker

Ms Ravneet Kaur

Structure of tau aggregation promoting antibody DC11 and of its oligomeric tau targets studied by X-ray crystallography and complementary methods

Speaker

Ondrej Cehlár

Effect of Thermal Treatment on the Structure and Hydrogen Storage Properties of Arc-Melted High-Entropy Alloys

Speaker

Dr Maksym Lisnichuk

Structural and Thermal Properties of Melt Spun Fe-Ga-Al-P-C-B Amorphous Ribbons**Speaker**

Prof. Nebojša Mitrović

SVT-PINN: A Physics-Informed Neural Framework for Disentangling Massive Binaries with Non-Linear Phase Variations.**Speaker**

Reddy Charan Reddy MUNAGALA

Expression, purification and preliminary crystallographic analysis of UL141-gH complex presented on HCMV virion surface**Speaker**

Andrej Bitala

Advanced Soft Magnetic Composites with Ferrite Insulation**Speaker**

Ioannis Tsoukalas

Structural, Magnetic, and Magnetocaloric Properties of Ti-Substituted GdMnO₃ Multiferroic Single Crystals**Speaker**

Muhammad Faisal Ashraf

Illuminating the mechanism and allosteric behavior of NanoLuc luciferase**Speaker**

Michal Nemergut

Solvent-Directed Synthesis and Structural Stability of HKUST-1 in Aqueous, Biological, and Organic Media**Speaker**

Dr Nikolas Király

Photometry and Imaging Polarimetry of Comet C/2012 S1 (ISON) at Heliocentric Distances 4.8 and 0.8 au**Speaker**

Leonid Shakun

Analysing possible precessing hot Jupiters using least-squares deconvolution technique**Speaker**

Dmytro Orikhovskiy

Structural Signatures of Spin Reorientation in Altermagnetic MnTe**Speaker**

Mr Marek Duchaň

X-ray diffraction study of low temperature ferroelectric phase transitions in IV-VI materials**Speaker**

Ondrej Caha

Design of TiZrNbTa-Al Medium-Entropy Alloys for Optimized Hydrogen Storage**Speaker**

Mr Jakub Kubaško

Synchrotron and TEM study of wet mechanically alloyed Co-Fe-(Ta,W)-B powders**Speaker**

Dr Vladimír Girman

SAXS and WAXS study: Effects of primary n-alcohols on pulmonary surfactant models**Speaker**

Denisa Sádecká

BSA-Coated Magnetic Nanoparticles for Betulinic Acid Delivery and MRI Contrast Enhancement**Speaker**

Valentín Jedinák

Demultiplexing Generalized Information via Quantum Transmission Lines**Speaker**

Soham Sau

Unravelling the FLASH Effect: Exploring Early Radiation-Chemical Processes with XFEL Radiation**Speaker**

Barbora Sedmidubská

Investigation of ion irradiation damaged of novel FeCrAl oxide dispersion strengthened alloys**Speaker**

Tomasz Stasiak

Study of magnetic order in the quantum magnet $\text{Cu}(\text{tn})\text{Cl}_2$ **Speaker**

Ali Darwich

Kinematic Fragmentation and Resolution-dependent Fading of Type II Spicules**Speaker**

Elene Midelashvili

Tracking magnetic nanocarriers within blood clots: toward multiscale structural imaging of $\text{Fe}_3\text{O}_4@\text{SiO}_2$ drug delivery systems**Speaker**

Dr Eva Beňová

Novel High-Entropy Materials for Energy Storage**Speaker**

Marianna Hodorová

Structural Characteristics of CoFe_2O_4 Nanoparticles with Different Morphologies**Speaker**

Žaneta Fabriciová

Quantum computation of small atomic clusters with error mitigation

Speaker

Kaushik Das

Study of the impact of ligand exchange on properties of thin films based on mercury chalcogenides colloidal quantum dots**Speaker**

Teodora Milenkovich

Experimental Capabilities of the Anton Paar XRDynamic 500 X-ray Diffractometer for Materials Characterization**Speaker**

Dr Daria Striežovská

Lattice Dynamics and Electronic Reconstruction in ZrTe₅**Speaker**

Ana Kanjevac

Using Pulsed Sources of Energetic Photons for Achieving Extreme Dose Rates: From Compact Plasma-Based Devices to Free-Electron Lasers**Speaker**

Luděk Vyšín

SAXSpoint 700 at the MASS-PRAM Laboratory: A Versatile Platform for Multiscale X-ray Structural Characterization**Speaker**

Mr Peter Dubecký

19:30