

Monday, September 8	Tuesday, September 9
13:00 Opening	7:00-8:30 Breakfast
13:15-15:25 Session I <i>Chairs: Milan Dopita, Jaromír Kopeček</i>	8:30-10:30 Session III <i>Chair: Václav Holý</i>
13:15 František Laufek (<i>Czech Geological Survey, Praha</i>) Minerals within the Pd-Ni-As system: Crystal structures 13:45 Zdeněk Jansa (<i>New Technologies-Research Centre, Plzeň</i>) Phase analysis of soil sediments with respect to presence asbestos minerals 14:10 Cristian Pilloni (<i>Faculty of Science, Charles University - CU, Praha</i>) Properties of schwertmannite: The critical role of phase purity 14:35 Esther de Prado (<i>Institute of Physics, Czech Academy of Sciences - CAS, Praha</i>) Improving thermoelectric efficiency of multilayer ScN/Sc _{1-x} Nb _x N heterostructures by Nb doping 15:00 Jan Drahokoupil (<i>Institute of Physics, CAS, Praha</i>) BaTiO ₃ /LaNiO ₃ thin films: From diffraction to computer simulations	8:30 Stanislav Daniš (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Data and what to do with it 9:15 Vojtěch Chlan (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Nuclear magnetic resonance in solids 10:00 Lukáš Horák (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Selected examples in X-ray reflektometry 10:30 Break, refreshment
15:25 Break, refreshment	11:00-12:30 Session IV <i>Chair: Jaroslav Maixner</i>
15:50-17:30 Session II <i>Chairs: Stanislav Daniš, Nikolaj Ganev</i>	11:00 Michal Dušek (<i>Institute of Physics, CAS, Praha</i>) First experience with single crystal diffractometer Synergy R 11:25 Jiří Zelenka (<i>Institute of Physics, CAS, Praha</i>) Interpretation of electron density maps using neural networks 11:50 Jan Rohlíček (<i>Institute of Physics, CAS, Praha</i>) Use of intermolecular distances in solving structures from powders
15:50 Petr Machovec (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Halide segregation in mixed-halide perovskites studied by XRD 16:15 Dominik Farka (<i>Faculty of Science, University of South Bohemia in České Budějovice</i>) Thiophene-based conductive polymers: Structural order vs. charge-Transport 16:40 Petr Doležal (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Polymorphs of Zn _x Cu _{4-x} (OH) ₆ Cl ₂ and their physical properties 17:05 Jamil Eduardo Flores Gonzales (<i>Institute of Physics, CAS, Praha</i>) Diffuse scattering in (K,Na)NbO ₃ solid solutions	12:30 Lunch
17:30-19:30 Short courses	14:00-15:45 Session V <i>Chair: Petr Pacht, Petr Kolenko</i>
Real structure and total powder pattern fitting – Introduction (R. Kužel, Z. Matěj)	14:00 Jindřich Hašek (<i>Institute of Biotechnology, CAS, Vestec</i>) Protein Crystallization 14:30 Jan Dohnálek (<i>Institute of Biotechnology, CAS, Vestec</i>) Information on protonation in biomolecular structures 14:55 Bohdan Schneider (<i>Institute of Biotechnology, CAS, Vestec</i>) Advances in annotation and validation of nucleic acids 15:20 Jiří Brynda (<i>Institute of Organic Chemistry and Biochemistry, CAS, Praha</i>) Advances in annotation and validation of nucleic acids
MSTRUCT course (M. Dopita, L. Horák, Z. Matěj)	
Moorhen course (Lucrezia Catapano, Petr Kolenko)	
19:30 Dinner	15:45 Break, refreshment
20:30 Courses	

Tuesday, September 9	Wednesday, September 10
15:45 Break, refreshment	7:00-8:30 Breakfast
16:15-17:20 Session VI <i>Chairs: Jan Dohnálek, Bohdan Schneider</i>	8:30-10:00 Session VII <i>Chair: Daniel Šimek</i>
16:15 Petr Kolenko (<i>Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University, Praha</i>) Crystal structure of PROSS-edited human interleukin 24 16:40 Barbora Kaščíková (<i>Faculty of Science, University of South Bohemia in České Budějovice</i>) Characterization of PROTAC-508: A cereblon-recruiting degrader of enteroviral 2A protease 16:55 Petra Havlíčková (<i>Faculty of Science, University of South Bohemia in České Budějovice</i>) Beyond oncogenes: How ras–MAPK variants Influence neurodevelopment	8:30 Václav Holý (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Hard x-rays with orbital momentum, properties and dynamical diffraction 9:10 Jozef Bednarčík (<i>University of P.J. Šafárik, Košice</i>) Study of local atomic structure of disordered materials by in-situ synchrotron experiments 9:35 Milan Dopita (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Light-induced phase segregation and structural relaxation in mixed-halide perovskites. FeOH nanoparticles
17:30 Radomír Kužel Information on preparation of ECM-36	10:00 Jiří Špringer (<i>Anton Paar</i>) Anton Paar, SAXSpoint 500/700 – new equipment for small-angle scattering
17:40-19:20 Jan Walla, Boris Míč (<i>Měřící technika Morava</i>) Practical demonstration of table-top diffractometer D6 Phaser	10:20 Szymon Stolarek (<i>Xenocs, SAS</i>) Enabling nanoscale insight: Advanced X-ray scattering solutions from Xenocs
19:30 Dinner	10:40 Break, refreshment
20:30 Meeting of CSCA board	11:10-13:15 Session VIII <i>Chairs: Jan Rohlíček, Michal Dušek</i>
	11:10 Paweł Olowek (<i>Rigaku</i>) XSPA: the future of XRD 11:30 Stjepan Prugovečki (<i>Malvern Panalytical</i>) New functions of XRD Epyrean
	11:50 Miroslav Lebeda (<i>Institute of Physics, CAS, Praha</i>) XRDlicious: An online tool for powder diffraction pattern and RDF simulation from crystal structures 12:15 Zdeněk Matěj (<i>Max IV Laboratory, Lund, Sweden</i>) Basic crystallographic algorithms in the ML language 12:45 Jan Drahokoupil, Miroslav Lebeda (<i>Institute of Physics, CAS, Praha</i>) Introduction to Mace course
	13:15 Lunch
	14:30 CSCA assembly
	15:30 Departure to Nová Bystřice
	16:00 Excursion in museum of old American cars and brewery
	18:30 Raut in Čiměř, guesthouse Life

Thursday, September 11	Thursday, September 11
7:00-8:30 Breakfast	15:00
8:30-10:30 Session IX - Large European Neutron Facilities <i>Chair: Milan Klicpera</i>	David Sviták (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Magnetic structure and excitations in the antiferromagnet $\text{Na}_2\text{BaMn}(\text{PO}_4)_2$
8:30 Mark Johnson (<i>ILL Grenoble, France</i>) Institute Laue-Langevin - instrument and infrastructure upgrades, the science strategy and new research opportunities	15:20 Romain Conan (<i>Faculty of Science, CU, Praha</i>) Magnetic correlation in functionalized supraparticles
9:10 Michael Hofmann (<i>MLZ Munich, Germany</i>) Diffraction at MLZ	15:40 Štefan Hricov (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Magnetic morphology of multishell nanoparticles
9:50 Přemysl Beran (<i>ESS, Lund, Sweden</i>) ESS News and first science opportunities	
10:30 Break, refreshment	16:00 Break, refreshment
11:00-12:30 Session X - Neutron Science in Czech Republic 1 <i>Chair: Přemysl Beran</i>	16:20-17:40 Session XII <i>Chairs: Pavla Roupčová, Zdeněk Matěj</i>
11:00 Jan Šaroun (<i>Institute of Nuclear Physics, CAS, Řež</i>) Neutron diffraction laboratory in Řež and its user program	16:20 Štěpán Venclík (<i>Faculty of Mathematics and Physics, CU, Praha</i>) LaueDB: A dataset for Laue patterns
11:20 Milan Klicpera (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Czech neutron association - establishment, mission, and objectives	16:40 Petr Cejpek (<i>Institute of Physics, CAS, Praha</i>) PSB_GUI – Matlab routine for the refinement of residual stresses, microstrain and crystallite shape in cubic materials
11:30 Pavel Strunz (<i>Institute of Nuclear Physics, CAS, Řež</i>) Residual-stress distribution in components fabricated with involvement of additive manufacturing	17:00 Ubaid Ahmed (<i>Institute of Physics, CAS, Praha</i>) Effect of Heat Treatment on Ti6Al4V porosity and micromechanical behavior
Olena Levytska, Pavel Strunz (<i>Institute of Nuclear Physics, CAS, Řež</i>) Validation of contour cut model for residual stresses in AM-repaired simulated defect by neutron diffraction	17:20 Jaromír Kopeček (<i>Institute of Physics, CAS, Praha</i>) Microstructure of rotary swaged copper bars with carbon admission
12:00 Jiří Kulda (<i>ILL Grenoble, France</i>) Pump-probe inelastic neutron scattering experiments	
12:30 Lunch	17:40-19:30 Course Mace (Miroslav Lebeda, Jan Drahokoupil)
14:00-16:00 Session XI - Neutron Science in Czech Republic 2 <i>Chairs: Pavel Strunz, Jan Šaroun</i>	19:30 Dinner
14:00 Gergely Farkas (<i>Institute of Nuclear Physics, CAS, Řež</i>) Experimental determination of critical resolved shear stresses by neutron diffraction	Friday, September 12
14:20 Vasyl Ryukhtin (<i>Institute of Nuclear Physics, CAS, Řež</i>) Investigations of vortex lattices and skyrmions using neutron scattering	7:00-8:30 Breakfast
14:40 Filip Hájek (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Novel pyrochlore-derived structure in rare-earth iridate single crystals	9:00-9:30 Session XIII <i>Chair: Milan Dopita</i>
	9:00 Radomír Kužel (<i>Faculty of Mathematics and Physics, CU, Praha</i>) Hexaferrite thin films prepared on different and differently oriented substrates studied by XRD
	9:30 Closing
	9:40 Possible continuation of courses

