



# European Conference on Neutron Scattering 2023

## Tuesday, March 21, 2023

**Poster session TUESDAY: Poster Session TUESDAY - Yards 4 - 6 (4:00 PM - 6:00 PM)**

[id] title	presenter	board
[218] Atomistic Simulations of the Magnetic Neutron Scattering from Nanoparticles	Mr ADAMS, Michael	TU-002
[504] Hydrogen bonding and local structure of imidazolium-based ionic liquids in the water-rich domain	ALMASY, Laszlo	TU-004
[243] Investigation of the vortex lattice in NbS <sub>2</sub> – a potential FFLO candidate	Mr ALSHEMI, Ahmed	TU-006
[115] Coherent and Incoherent Scattering of Tetrahydrofuran from Meso- to Inter-molecular Scales by Neutron Spectroscopy with Polarization Analysis and Spin Echo	ARBE, Arantxa	TU-008
[446] ORSO- The Open Reflectometry Standards Organisation	ARNOLD, Tom STAHN, Jochen	TU-010
[511] Performing an accurate measurement of $\Delta b_i$ of $^3\text{He}$ using NSE	BABCOCK, Earl	TU-012
[174] FRAPPY a Python Implementation of SECoP	BARTKOWIAK, Marek	TU-014
[507] Status and Perspective of the FRM II Conversion Project	BAUMEISTER, Bruno	TU-016
[332] Short time diffusive properties in polydisperse solutions	BECK, Christian	TU-018
[408] Characterization of the low-dimensional antiferromagnet [Cu(H <sub>2</sub> O) <sub>2</sub> (pyz) <sub>2</sub> ]Cr <sub>2</sub> O <sub>7</sub>	BEDDRICH, Lukas	TU-020
[289] Hydrogen bonding in the active site of a triosephosphate isomerase E97Q variant studied by quantum refinement	BERGMANN, Justin	TU-022
[464] Measurement of the Fierz interference term with PERKEO III	BERNERT, Karina	TU-024
[150] Similarities between unfolded protein dynamics and polyelectrolyte dynamics	BIEHL, Ralf	TU-026
[368] Frustration-induced diffuse magnetic scattering in metallic HoInCu <sub>4</sub>	BORALEY, Xavier	TU-028
[112] Current-induced Self-organisation of Vortex Matter Studied by SANS	BREMS, Xaver Simon	TU-030
[180] Model cellular membranes: From flat to strongly curved structures	Prof. CARDENAS, Marite	TU-034
[288] Thermal moderator-reflector design of the 24Hz target station for the High Brilliance Neutron Source	CHEN, Junyang	TU-036
[113] The soft matter and chemistry support facilities at the Institut Laue-Langevin	CHIAPPISI, Leonardo	TU-038
[149] Neutron investigations of high coercivity hexaferrite	CHRISTENSEN, Mogens	TU-040
[356] Best Practices for Management of the Construction Phase of Research Infrastructures: A Preliminary Case Study	CLAUDIO WEBER, Tania	TU-042
[468] Magnetic order in the archetypical 2D van der Waals magnet CrI <sub>3</sub>	DALAL, KAMALDEEP	TU-044
[410] Research and development towards novel spin-selective neutron detectors for fundamental science	DEGENKOLB, Skyler	TU-046
[151] Silver Jubilee for the OSIRIS spectrometer: Achievements and Outlook	DEMMELE, Franz	TU-048

[327] The ILL Deuteration Laboratory (ILL D-Lab)	DEVOS, Juliette	TU-050
[470] Understoichiometric CrBx/TiBy superlattices as novel materials for neutron mirrors	DORRI, Samira	TU-052
[427] Calcium(II)-containing borosilicate aerogels as promising materials for application in regenerative medicine	Dr DUDÁS, Zoltán	TU-054
[48] Magnetic, electric and toroidal polarisation modes describing the physical properties of crystals - the NdFeO3 case	FABRYKIEWICZ, Piotr	TU-056
[137] On the magnetization reduction in iron oxide nanoparticles	Dr FEOKTYSTOV, Artem	TU-058
[148] Exploring the world of biological lipids – deuteration, purification and characterisation of yeast lipids for native-like cell membrane models at ESS	FISHER, Zoe	TU-060
[490] The bispectral chopper spectrometer T-REX	FRANZ, Christian	TU-062
[63] The Source for Ultra-Cold Neutrons at the FRM II	FREI, Andreas	TU-064
[318] The GISANS instrument at the HBS	FRIELINGHAUS, Henrich	TU-066
[34] Fast Calculation of Scattering Patterns Using Hypergeometric Function Algorithms	FÖRSTER, Stephan	TU-068
[291] Bulk texture and microstructure evolution of $\gamma$ -TiAl alloy during hot compression	GAN, Weimin	TU-070
[131] Lamellar diffraction from lipid bilayers on MIRA, a triple axis spectrometer at the MLZ	GARVEY, Christopher	TU-072
[197] SANS-LLB, the new small-angle instrument at SINQ, PSI	GASSER, Urs	TU-074
[309] Accurate determination of bound coherent neutron scattering lengths using Bragg diffraction	GEHLHAAR, Florian	TU-076
[367] Spin wave dispersion of the antiferromagnet CuMnSb	GEORGII, Robert	TU-078
[111] In-situ neutron diffraction and electron microscopy to study deformation mechanisms in Ni-based superalloys	Dr GILLES, Ralph	TU-080
[46] KOMPASS – the polarized cold neutron triple-axis spectrometer at the FRM II	Dr GORKOV, Dmitry	TU-082
[6] Neutron Scattering Kernels for Methane I & II and Ethane III	Prof. GRANADA, Rolando	TU-084
[13] Probing topological interactions in polymers under shear	Dr GVARAMIA, Manuchar	TU-086
[411] Multi-time scale functional protein dynamics probed by quasielastic neutron scattering	HASSANI, Abir Nesrine	TU-088
[467] Multi scale structural insight into cheese by scattering techniques	HEIDEN-HECHT, Theresia	TU-090
[105] Elastic constants and deformation mechanisms in titanium alloys determined through diffraction under mechanical load	HOELZEL, Markus	TU-092
[296] A wide aperture high field asymmetric magnet for diffraction at ESS	HOLMES, Alexander	TU-094
[59] Gluten versus gluten-free pasta: a structural analysis	HOUSTON, Judith	TU-096
[236] Activation energy of diffusion determined from a single in-situ neutron reflectometry experiment	Dr HÜGER, Erwin	TU-098
[415] From IN8 to THERMES – a thermal three-axis spectrometer at ILL	IVANOV, Alexandre	TU-100
[4] Incommensurate and multi-q magnetic misfit structure in the frustrated quantum spin ladder material antlerite, Cu3SO4(OH)4	INOSOV, Dmytro	TU-102
[349] Small-Angle Scattering at HBS	JAKSCH, Sebastian	TU-104
[418] Effect of solvent on the ps dynamics in PNIPAM microgel	JURANYI, Fanni	TU-106

[208] Simulations of background scattering from a 15 T magnet	KARAKOSTA, Petroula	TU-108
[365] Radiation Shielding Calculations for the PERC Magnet	KLENKE, Jens	TU-110
[465] Updates in SASfit for fitting analytical expressions and numerical models to small angle scattering patterns	Dr KOHLBRECHER, Joachim	TU-112
[199] Order and disorder in a new potential quantum spin liquid	KORSHUNOV, Artem	TU-114
[398] Simplifying elaborate model building and refinement for neutron reflectivity data	KOUTSIOUMPAS, Alexandros	TU-116
[60] An engineering diffractometer for the High Brilliance neutron Source (HBS)	Mr KRASNOV, Igor FENSKE, Jochen	TU-118
[499] Influence of Nonmagnetic Cation Substitution on Magnetic Order Temperature in Y type hexaferrite: Ba <sub>0.5</sub> Sr <sub>1.5</sub> Zn <sub>2</sub> Fe <sub>12</sub> O <sub>22</sub> and Ba <sub>0.5</sub> Sr <sub>1.5</sub> Zn <sub>2</sub> Al <sub>0.08</sub> Fe <sub>11.92</sub> O <sub>22</sub>	Prof. KREZHOV, Kiril	TU-120
[134] Exploring the lithium intercalation mechanism and critical role of structural water in layered H <sub>2</sub> V <sub>3</sub> O <sub>8</sub> high-capacity cathode material for lithium-ion batteries	Prof. KUHN, Alois	TU-122
[362] Printing parameter optimisation of additively manufactured ER120S-G steel using neutron tomography	KUMAR, Richi	TU-124
[154] SAGA - a dedicated GISANS instrument for the ESS	KÖHLER, Sebastian	TU-126
[255] Effect of the polymer conformation on the structure of protein single-chain nanoparticles.	LE, Thu Phuong	TU-128
[67] Modelling and design of the new engineering diffractometer eMAP at ISIS	Dr LEE, Tung Lik	TU-130
[128] Magnetically frustrated dynamics on the Cairo pentagonal lattice	LENANDER, Emma Ynill	TU-132
[335] The Thermal Powder Diffractometer of the HiCANS source HBS	LIEUTENANT, Klaus	TU-134
[428] New Perspectives for Neutron Imaging through Advanced Event-Mode Data Acquisition	LOSKO, Adrian	TU-136
[212] A macromolecular diffractometer for the High Brilliance Neutron Source (HBS)	MA, Zhanwen	TU-138
[91] INS study of spin stripe fluctuations in antiferromagnetic Pr <sub>2-x</sub> Sr <sub>x</sub> NiO <sub>4+δ</sub>	MAITY, Avishek	TU-140
[416] Computation of the X-ray and neutron diffraction patterns of mesoscopic continuum simulations	MAJUMDAR, Arnab	TU-142
[294] Polarised neutron inelastic scattering on Tb <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> : Investigating the role of chiral magnons in a spin Seebeck prototype.	MANNIX, Dan	TU-144
[215] Conceptual design of supermirror polarizers at the European Spallation Source	MARTIN RODRIGUEZ, Damian	TU-146
[52] Neutron diffraction study of the 1/2 quantum magnetization plateau compound Ni <sub>2</sub> V <sub>2</sub> O <sub>7</sub>	Dr MATSUO, Masashi MATSUO, Yukari	TU-148
[492] Magnetic Wollaston Prisms for spatial intensity modulations of polarized neutron beams at FRM II	METTUS, Denis	TU-150
[343] Combining Neutron Spin Echo and Polarization Analysis	MEZEI, Ferenc	TU-152
[375] Made2Reflect, a python package for evaluating the neutron or X-Ray reflectivity of systems simulated by Atomistic Molecular Dynamics	Dr MOULIN, Jean-Francois	TU-154
[501] Structural design of polyelectrolyte-protein nanocarriers for targeted drug delivery	Dr MURMILIUK, Anastasiia	TU-156
[179] Optimizing the microstructure of compositionally complex CoNiCr-base superalloys for enhanced high temperatures strength	Mr NAGEL, Oliver	TU-158

[161] <b>Four Dimensional Neutron Depth Profiling with the N4DP Instrument at MLZ</b>	NEAGU, Robert	TU-160
[142] <b>Polarisation analysis of QENS on per-deuterated proteins.</b>	NIDRICHE, Agathe	TU-162
[185] <b>Comparison of neutron and synchrotron diffraction methods in texture analysis of a cold rolled Cu-cube standard sample</b>	NOWAK, Gregor	TU-164
[384] <b>Interfacial behaviour of sugar-based surfactants at the solid-liquid interface in relation to their structure and solution behaviour</b>	NYLANDER, Tommy	TU-166
[191] <b>Suppression of segmental chain dynamics on particle's surface in attractive polymer nanocomposites</b>	OHL, Michael	TU-168
[57] <b>The Macromolecular Neutron Single Crystal Diffractometer BIODIFF for Proteins at the Heinz Maier-Leibnitz Zentrum MLZ</b>	OSTERMANN, Andreas	TU-170
[406] <b>Hierarchical polymer nanocomposite structures in SANS and SESANS</b>	Dr PARNELL, Steven	TU-174
[1] <b>Neutrons and X-ray methods for investigation of Li-ion batteries at material, electrode and cell level</b>	Dr PAUL, Dr. Neelima	TU-176
[97] <b>The HERMES reflectometer at the JULIC neutron platform</b>	PAULIN, Mariano Andrés	TU-178
[248] <b>The new data infrastructure at MLZ</b>	PEDERSEN, Bjoern	TU-180
[22] <b>The TOSCA secondary spectrometer upgrade: design and simulations</b>	PERRICHON, Adrien	TU-182
[313] <b>Development of a Time-of-Flight Grating Interferometer for the Measurement of the Neutron Electric Charge</b>	PERSOZ, Marc	TU-184
[321] <b>Lithium Distribution in 18650-type Li-ion batteries over its lifetime</b>	PETZ, Dominik	TU-186
[498] <b>Solution structures of native photosystems revealed by small-angle neutron scattering</b>	PIEPER, Jörg	TU-188
[373] <b>The SORGENTINA-RF project: fusion neutrons for medical radioisotopes and beyond</b>	PIETROPAOLO, Antonino	TU-190
[110] <b>KWS-3 very small-angle neutron scattering focusing diffractometer at MLZ</b>	Dr PIPICH, Vitaliy	TU-192
[153] <b>Competing magnetic phases in Dirac nodal line semimetals LnSbTe</b>	Dr PLOKHIKH, Igor	TU-194
[21] <b>Symmetry and anisotropic properties of <math>\beta</math>-PbO<sub>2</sub> studied by DFT as well as SR and neutron diffraction</b>	PRZENIOSŁO, Radoslaw	TU-196
[138] <b>Hydrated paths and water dynamics in functionalized syndiotactic-polystyrene proton conductive membranes studied by extended Q-range SANS and multi-resolution QENS.</b>	RADULESCU, Aurel	TU-198
[405] <b>Improving a Molecular Dynamics Water Model by Comparing it to Neutron and X-ray Scattering Data</b>	REICH, Veronika	TU-200
[85] <b>Nuclear Analytical Facility at MLZ</b>	REVAY, Zsolt	TU-202
[363] <b>Automated grouping of spatially distributed detectors in neutron time-of-flight experiments based on multivariate similarity</b>	ROBLED0, Jose	TU-204
[390] <b>Extracellular vesicles internalization mechanisms into cells</b>	RONDELLI, Valeria	TU-206
[364] <b>Nanostructural changes in latex colloid-cellulose nanofibril hybrid films during humidity cycling</b>	ROTH, Stephan	TU-208
[442] <b>Microstructure of engineering materials studied by SANS</b>	RYUKHTIN, Vasyl	TU-210
[68] <b>Tuning of protein adsorption on nanoparticles using oppositely charged surfactant and multi-valent ions</b>	SAHA, Debasish	TU-212
[436] <b>STRESSFIT – software for analysis of residual stress distributions</b>	SAROUN, Jan	TU-214
[24] <b>FRM II neutron imaging exported to smaller reactors</b>	Dr SCHILLINGER, Burkhard	TU-216

[164] Conceptual design of neutron imaging instruments for the HBS	SCHMIDT, Norberto	TU-218
[292] Dynamics in polymer-fullerene blends and the influence of DIO as solvent additive studied with quasielastic neutron scattering	SCHWAIGER, Dominik M.	TU-220
[50] Neutron diffraction studies of crystal structure and orbital ordering in multiferroics, based on complex manganese oxides.	SIKOLENKO, Vadim	TU-222
[214] Can Neutron Reflectometry help us observe the MscL ion channel in action?	SKODA, Maximilian	TU-224
[38] Quenching and Deformation Dilatometer for In-Situ Materials' Characterization by Neutron Diffraction (STRESS-SPEC) and Small Angle Neutron Scattering (SANS-1) at MLZ	SOLIS, Cecilia	TU-226
[354] Amor - an angle and energy dispersive reflectometer	STAHN, Jochen	TU-228
[233] High-resolution neutron spectroscopy of zone-boundary magnons in Cu <sub>2</sub> OSeO <sub>3</sub> under magnetic field	STEKIEL, Michal	TU-230
[290] Polarized SANS & GISANS studies on condensed matter systems	Dr STELLHORN, Annika	TU-232
[357] BornAgain: Software for GISAS and Reflectometry	Mr SVECHNIKOV, Mikhail	TU-234
[273] Ordered and disordered variants of the triangular lattice antiferromagnet Ca <sub>3</sub> NiNb <sub>2</sub> O <sub>9</sub>	TANG, Ran	TU-236
[409] Status update of ODIN, the neutron instrument for imaging at ESS	TARTAGLIONE, Aureliano	TU-238
[353] Magnetic structure and spin waves of the doped cobalt oxide La <sub>2-x</sub> BaxCoO <sub>4</sub>	TOBIN, Siobhan	TU-240
[476] Development of isoscattering point approach in SANS contrast variation for polydisperse and anisotropic particles	Dr TOMCHUK, Oleksandr	TU-242
[400] Tunable critical correlations in kagome ice	TURRINI, Alexandra	TU-244
[462] Polyoxometalate-rich complex micelles for functional mesoporous materials	Mr UNNIKRISHNAN, Ananthapadmanabhan	TU-246
[249] Evaluation of a method for time-of-flight, wavelength and distance calibration for neutron scattering instruments by means of a mini-chopper and standard neutron monitors	Mrs VERGARA, Lisa	TU-248
[183] Expanding the Sr-B-N-H system with the compound Sr <sub>13</sub> (BN <sub>2</sub> ) <sub>6</sub> H <sub>8</sub> validated by X-ray and neutron powder diffraction	WANDEL, Sophia Lena	TU-250
[101] KCl modulated D <sub>2</sub> O Hydration and Subsequent Thermo-responsive Behavior of Poly(sulfobetaine)-Based Diblock Copolymer Thin Films	WANG, Peixi	TU-252
[74] Electron-phonon coupling in Mn <sub>1-x</sub> Fe <sub>x</sub> Si	WEBER, Frank	TU-254
[144] Impact of S addition on the dynamics and on the structure of glass forming Ti <sub>75</sub> Ni <sub>25-x</sub> S <sub>x</sub> melts	WILDEN, Johanna	TU-256
[401] Interaction of Prohibitin peptides with membrane models	WINTER, Anja	TU-258
[102] New sample environments at the cold neutron chopper spectrometer TOFTOF	WOLF, Marcell	TU-260
[328] Spectroscopic binning of event mode neutron data: Sub-second time resolution for the study of soft matter	WOLFF, Maximilian	TU-262
[120] The Structure Evolution in Thin Films of a Nearly Symmetric Polystyrene-block-Poly(methyl methacrylate) on a Layer of homopolystyrene chains	Dr WU, Chun-Ming	TU-264
[271] Long-range order, re-entrant spin glass and spin liquid correlations in Anion disordered Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub>	XU, Jianhui	TU-266
[157] Dipolar spin ice regime proximate to an all-in-all-out ground state in the dipolar-octupolar pyrochlore Ce <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub>	YAHNE, Danielle	TU-268

<b>[235] Novel idea of neutron polychromator and application for reflectometry and spectroscopy</b>	YAMADA, Norifumi	TU-270
<b>[96] Inelastic neutron scattering study of thymol as potential neutron-moderating material</b>	ZEPPELIN, Lukas	TU-272
<b>[201] Effect of architecture in thermoresponsive hydrogels from PEG-based terpolymers</b>	ZHENG, Feifei	TU-274
<b>[15] Focusing High-Resolution Three Axis Neutron Diffractometer for Microstructure Investigations of Polycrystalline Materials</b>	Dr MIKULA, Pavol	TU-276
<b>[194] Deuteration at ISIS. Contributions to DEUNET and LENS</b>	WEBSTER, john	TU-278