## **European Conference on Neutron Scattering 2023**

## Monday, March 20, 2023

Poster Session MONDAY: Posters, beer and pretzels - Yards 4 - 6 (4:00 PM - 6:00 PM)

[id] title	presenter	board
[39] The Electron Microscopy Facility at the MLZ	Dr APPAVOU, Marie-Sousai	MO-001
[340] A compact high-temperature furnace for SANS magnets	AL-FALOU, Abdel	MO-003
[430] Aqueous solutions of heterocyclic amines: structure and thermodynamics	ALMÁSY, László	MO-005
[79] Effect of pressure on the micellar structure of PMMA-b-PNIPAM in aqueous solution	ALVAREZ HERRERA, Pablo	MO-007
[87] Development of a "Newton shutter" prototype for use in Neutron Scattering	ARNOLD, Tom	MO-009
[61] Polarized 3He for science with neutrons at the JCNS in Garching	BABCOCK, Earl	MO-011
[281] Magnetization process in large grain ferromagnets studied by polarized neutron imaging	BACKS, Alex	MO-013
[225] Take it up a notch - Sample Environment at SINQ	BARTKOWIAK, Marek	MO-015
[254] Dynamic cluster formation, viscosity and diffusion in monoclonal antibody solutions	BECK, Christian	MO-017
[331] Analysis Frameworks for Quasi-Elastic Neutron Scattering with Discrete Energy Transfers	BECK, Christian	MO-019
[263] BEER@ESS: Versatile instrument for engineering studies	BERAN, Premysl	MO-021
[334] The backscatter detector system of PERC	BERNERT, Karina	MO-023
[223] How Polymorphism and Ligand Binding modulate G-quadruplex Fast Dynamics	BERTINI, Luca	MO-025
[18] Amphiphilic surfactants as model additives for engine friction reduction	BOGGIO-ROBUTTI, Beatrice A. M.	MO-027
[487] Interface engineering of 11B4C-containing Ni/Ti multilayer optics	BROEKHUIJSEN, Sjoerd	MO-031
[508] High-brilliance and high-flux neutron cold source based on elongated rectangular moderators.	Dr IOFFE, Alexander	MO-033
[32] The role of neutron diffraction in understanding magnetization tuning of MnCO3 by Amino Acids incorporation	CASPI, Elad Nisan	MO-035
[486] Implications of Surfactant Hydrophobic Chain Architecture on the Surfactant-Skin Lipid Model Interaction: a Neutron Diffraction Study	Dr CHEN, Yao	MO-037
[489] Conformal deposition of BxC thin films for solid-state neutron detectors	Mr CHOOLAKKAL, Arun Haridas	MO-039
[118] Experimental Setup for Neutron Pulse Measurement at Early-stage ESS Test Beamline	CHULAPAKORN, Thawatchart	MO-041
[278] On the use of perfect Si crystals in the development of innovative neutron optics	COURTOIS, Pierre	MO-043
[266] A novel uniaxial pressure cell for neutron scattering studies of quantum magnetism.	DEEN, Pascale	MO-045

9		
[322] HYMN – A novel unified toolbox for in-situ magnetic hyperthermia experiments using neutron scattering	DEMBSKI-VILLALTA, Michal	MO-047
[172] miniADAM: the extension of the SuperADAM reflectometer family.	DEVISHVILI, Anton	MO-049
[103] Innovative neutron guide replacement at the Institut Laue Langevin: The H24 (thermal) and H15 & H16 (cold) neutron guides.	Dr DEWHURST, Charles	MO-051
[355] Effects of NSAIDs on the Dynamics and Phase Behavior of DODAB Bilayers	DUBEY, Purushottam	MO-053
[122] Library of models for fitting Quasi Elastic Neutron Scattering data	DURNIAK, Celine	MO-055
[423] In-situ investigation of the rolling texture influence in the AZ31 magnesium alloy with a strain diffractometer	FARKAS, Gergely	MO-057
[198] Effect of microstructure on mechanical properties and residual stresses in interpenetrating aluminum-alumina composites fabricated by squeeze casting	FIORI, Fabrizio	MO-059
[127] The upgarded cold neutron diffraction instrument DMC	FJELLVAG, Oystein	MO-061
[503] Intermediate Magnetic Phase of Charge-Stripe Ordered La2NiO4.11 and the probable trigger for static magnetic ordering.	FREEMAN, Paul	MO-063
[460] Recent developments of pyrolytic graphite monochromators	FREUND, Andreas	MO-065
[457] Scattered Neutron Imaging as a Technique to Compliment Traditional Radiography and Total-scattering Methods.	FROST, Matthew	MO-067
[280] Magnetic phase transitions in frustrated epsilon-Fe\$_2\$O\$_3\$ polymorph	Prof. GARCIA-MUÑOZ, Jose Luis	MO-069
[494] Disposition of small molecules in stacked bilayers of stratum corneum lipids by neutron diffraction and selective deuteration	GARVEY, Christopher	MO-071
[132] Role of methyl substitutions in maintaining the fluid phase of a phospholipid	GARVEY, Christopher	MO-073
[49] Dynamic spin-state order in perovskite-like LaCoO\$_3\$	GAZIZULINA, Alsu	MO-075
[252] Non-reciprocal magnons in non-centrosymmetric MnSi	GEORGII, Robert	MO-077
[230] Metal as insulation winding high-temperature superconducting split pair coil to improve the protection against quenches	GHANATHE, Madhu	MO-079
[73] Neutron coating development applied to non-depolarizing CuTi supermirror	GOMEZ GUZMAN, Jose Manuel	MO-081
[300] Investigations on the kinetics of the Liquid-Liquid Phase Separation of the Myelin Basic Protein	GRAF VON WESTARP, Igor	MO-083
[286] Unravel the structuring of meat analogues by neutron scattering	GUAN, Tong	MO-085
[371] ESS/ISIS Support Laboratories – how we best support the neutron scattering users through collaboration	HARTL, Monika	MO-087
[160] Monte-Carlo simulations of the new radiation shielding at the thermal beamport SR8 @ FRM II with SERPENT 2	HAUF, Christoph	MO-089
[188] The small-angle scattering instrument SANS-1 at MLZ	HEINEMANN, Andre MÜHLBAUER, Sebastian	MO-091
[23] Where does an enzyme reside in a sponge?	HOLDERER, Olaf	MO-093
[456] The Materials and Physics Support group at ESS	HOLMES, Alexander	MO-095
[99] LoKI & FREIA: The UK in-kind contribution to the first 15 instruments at ESS	HOUSTON, Judith	MO-097
[307] Li/Ni disorder of electrochemically cycled NCA-type battery cathodes	HÖLDERLE, Tobias	MO-099
[414] Proton Dynamics in Potassium Dihydrogen Phosphate (KDP) at Pressures up to 2.5 GPa by Inelastic Neutron Scattering	IVANOV, Alexandre	MO-101

[277] SKADI: Small-Angle Neutron Scattering at ESS	JAKSCH, Sebastian	MO-103
[221] MIEZE spectroscopy at shorter wavelengths	JOCHUM, Johanna K.	MO-105
[287] Establishment of the SEC-SANS option at KWS-2 in MLZ	KANG, Jia-Jhen	MO-107
[351] NIST/IBBR Biomolecular Labeling Laboratory (BL2)	KELMAN, Zvi	MO-109
[461] Extensive small angle neutron scattering (SANS) studies of Mucin polyelectrolyte solutions	Dr RAMYA, Koduvayur A. Dr J. GARVEY, Christopher	MO-111
[509] A new method to find optimal neutron moderator size based on instruments' parameters	Dr KONIK, Peter	MO-113
[391] MARIA – The high-intensity polarized neutron reflectometer of JCNS	KOUTSIOUMPAS, Alexandros	MO-115
[25] Monoclinic symmetry of the hcp phase of Cobalt	KOZŁOWSKI, Paweł	MO-117
[80] Correlation of structure and dynamics in Cu-Ti melts	KREUZER, Lucas	MO-119
[29] Detailed study of the neutron scattering from highly oriented pyrolytic graphite	KRIGHAAR, Kristine	MO-121
[445] Spin Reorientation and Rare-earth ordering in Rare-earth Orthoferrites and Orthochromites	MALIK, Vivek	MO-123
[377] Hydrogen storage chemistry: the path of phase transformation in 6Mg(NH2)2:9LiH:12LiBD4 during hydrogen-emission reaction	KUZNETSOVA, Anastasiia	MO-125
[86] MDMC: a new program to refine force field parameters against experimental data	LANG, Franz	MO-127
[155] Silicon detector for neutron beta decay measurements with PERC	LEBERT, Manuel	MO-129
[133] European Spallation Source Polarisation Development	Dr LEE, Wai Tung Hal	MO-131
[72] Topochemical polymerization under high pressure: threshold distance and selectivity	LI, Kuo	MO-133
[245] CSPEC : Development of the cold chopper spectrometer of the ESS.	LOHSTROH, Wiebke	MO-135
[513] Structure and Dynamics of Huntingtin. A Segmental Labelling Approach	LUND, Xamuel Loft	MO-137
[265] Inelastic magnetic scattering and hydrogen dynamics in H3O-Jarosite	MACHUCA-BEIER, Lukas	MO-139
[69] Quasielastic Neutron Scattering Study in Poly(tetrahydrofuran-co-epychlorohydrin) Based All-Polymer Nanocomposites	MAIZ, Jon	MO-141
[75] Tuning hydrogel properties: counterion specific effects and addition of nanoplatelets	MALIKOVA, Natalie	MO-143
[412] Development of a large-area curved Trench-MWPC 3He detector for D16 neutron diffractometer at ILL	MARCHAL, Julien	MO-145
[33] Magnetic excitations in the zigzag-chain compound KCu\$_4\$P\$_3\$O\$_{12}\$	MATSUO, Masashi	MO-147
[186] Port-GISANS: A portable GISANS booster for revealing the structure of complex soft matter interfaces and biomembranes.	Mr MEHLER, Filip	MO-149
[387] Area detector prototype for the hot single crystal diffractometer HEiDi	MEVEN, Martin	MO-151
[42] Signature of defect-induced symmetry breaking in magnetic neutron scattering	Prof. MICHELS, Andreas	MO-153
[95] Localization of Dye Molecules in Surfactant Assemblies via SANS Contrast Variation	MUELLER, Wenke	MO-155
[175] Development of a unique testing machine for in-situ neutron measurements at elevated temperatures and mechanical loading	MUTSCHKE, Alexander	MO-157
[347] Propagation-based phase contrast neutron imaging in McStas	NAVER, Estrid	MO-159

dropean Conference on Neutron Scattering 2025 / Program	Monday, Ma	11 C11 20, 2023
[458] Quantitative analysis of magnetic domain sizes in electrical steel	NEUWIRTH, Tobias	MO-161
[279] CAMEA — A multiplexing analyzer for neutron spectroscopy	NIEDERMAYER, Christof	MO-163
[177] Design study of a 1-m\$^{2}\$ Position Sensitive Neutron Detector (PSND)	NOWAK, Gregor	MO-165
[469] Residual stresses in AISI 316 L stainless steel manufactured via powder bed fusion	NÉMETH, Gergely	MO-167
[64] NMX Macromolecular Diffractometer at the European Spallation Source	OKSANEN, Esko	MO-169
[482] d 5 -off-centering induced ferroelectric and magnetoelectric correlations in trirutile-Fe 2 TeO 6	PAL, PIKESH	MO-171
[45] Thermal Neutron Three Axes Spectrometer PUMA: Recent Instrumentation Development	PARK, Jitae	MO-173
[44] Dynamics of Furanosides: Inelastic Neutron Scattering and Raman Study of Methyl-β-D-Ribofuranoside	PASCARIU, Matei	MO-175
[2] Surface distortion of Fe dot-decorated TiO2 nanotubular templates using ToF-GISAS	PAUL, Dr. Neelima	MO-177
[203] Structural features of a new oxygen deficient perovskite oxygen ion conductor explored by neutron scattering	PAULUS, Werner	MO-179
[302] Progress of MIRACLES experimental activities, the backscattering spectrometer at ESS	Dr PEREIRA, Jose	MO-181
[35] Proton dynamics in proton-conducting brownmillerite-based barium indate oxides	PERRICHON, Adrien	MO-183
[325] Electric field-induced assembly of magnetic nanoparticles in ferrofluids	PETRENKO, Viktor	MO-185
[305] Neutron Depth Profiling Measurements to Study Lithiation Mechanism of LiAl Electrodes	PHAM, Thien An	MO-187
[385] Slowing down 14 MeV fusion neutrons	PIETROPAOLO, Antonino	MO-189
[251] Polymorphic phase transition in liquid and supercritical carbon dioxide	Dr PIPICH, Vitaliy	MO-191
[123] Dynamics of water molecules on the surface of iron oxide nanoparticles: A QENS study	PLEKHANOV, Maksim	MO-193
[165] Bulk crystal growth of materials with possible novel quantum states with RMX structure-type	POMJAKUSHINA, Ekaterina	MO-195
[65] Thin film fabrication for users: Possibilities and perspectives	PÜTTER, Sabine	MO-197
[167] Upgrade of JCNS SANS instrument KWS-2 for improved performance and beam-time efficiency	RADULESCU, Aurel	MO-199
[260] Fine-Tuning the Swelling Behavior of PNIPMAM Thin Films – The Case of Salt Addition	REITENBACH, Julija	MO-201
[330] Virtual experiments at the KWS-1 instrument with VITESS to assist training of machine learning algorithms	ROBLEDO, Jose	MO-203
[28] Nanoscale magnetization in lithiated iron oxide nanoparticles	ROCHELS, Leonhard	MO-205
[395] Neutron scattering studies of phonon lifetime in SrTiO3	ROSHANINEJAD, Parisa	MO-207
[26] Evolution of Magnetization in Sequentially Grown Ferrite Nanoparticles	ROUZBEH, Nahal	MO-209
[293] The one-dimensional antiferromagnetic S=1/2 Heisenberg chain in an applied magnetic field	SAFIULINA, Irina	MO-211
[173] Considering Instrumentation for a High Intensity Moderator at the European Spallation Source	SAMOTHRAKITIS, Stavros	MO-213
European Spanation Source		

8		-, -
[270] The cold neutron three-axis spectrometer IN12 at the ILL	SCHMALZL, Karin	MO-217
[420] FLASH-NT - A proposal for a complementary neutron imaging instrument on a cold guide at MLZ	SCHULZ, Michael	MO-219
[361] Diffraction computed tomography and its applications	SENYSHYN, Anatoliy	MO-221
[58] Micromagnetic simulation of neutron scattering from spherical nanoparticles: Effect of pore-type defects	SINAGA, Evelyn	MO-223
[374] Relocation of the cold triple axis spectrometer FLEXX to MLZ, Munich: Larmor diffraction and inelastic scattering	SKOULATOS, Markos	MO-225
[211] Variation of Structural and Dynamical Flexibility of Myelin Basic Protein in Response to Guanidinium Chloride	STADLER, Andreas	MO-227
[303] Neutron scattering of the easy-plane magnet ErB\$_2\$	STEKIEL, Michal	MO-229
[348] Neutron polarimetry study on the phonon-crystal field coupling in CeAuAl3	STEKIEL, Michal	MO-231
[323] Chemical Analysis with Neutrons for Cultural Heritage Research	Dr STIEGHORST, Christian	MO-233
[220] Concept study of an indirect spectrometer of mushroom type at the reactor source FRM II	TANG, Ran	MO-235
[209] magnetic structure of Mn2GaC thin film by neutron diffraction	Dr TAO, Quanzheng	MO-237
[352] Magnetic structure and spin flip transition of MnSb4Te7	TOBIN, Siobhan	MO-239
[475] Polydispersity analysis based on a unified exponential/power-law approach to small-angle neutron scattering	Dr TOMCHUK, Oleksandr	MO-241
[242] Investigation of temperature distribution and phase of InBi eutectic alloy through energy resolved neutron imaging	Dr TREMSIN, Anton	MO-243
[77] Phonon confinement gap in CeO\$_2\$ nanocrystals	Dr TYMOSHENKO, Yuliia	MO-245
[205] The Topology of Polymer Brushes Determines Their Nanoscale Hydration	VAGIAS, Apostolos	MO-247
[376] The SAPHiR instrument for neutron diffraction and radiography at high pressure and temperature	WALTE, Nicolas	MO-249
[210] Lithium-ion Batteries: a microscopic view! of Lithium-ion transportation in 4-arm star PEO	WANG, Hui	MO-251
[213] A hitchhiker's guide to the EasyScience galaxy	WARD, Simon	MO-253
[16] Unconventional magnetic phase transitions and non-trivial spin structures in the DMI-magnet Ba2CuGe2O7	WILD, Peter	MO-255
[140] News from the McStas instrument simulation package	WILLENDRUP, Peter	MO-257
[76] The direct geometry cold chopper spectrometer TOFTOF	WOLF, Marcell	MO-259
[422] Event Mode Neutron Imaging with ns Temporal and µm Spatial Resolution	WOLFERTZ, Alexander	MO-261
[108] KWS-X: The new SAXS/WAXS Laboratory Beamline at JCNS-MLZ	WU, Baohu	MO-263
[267] New options on the polarized neutron single crystal diffractometer POLI at MLZ	XU, Jianhui	MO-265
[317] Monte-Carlo simulations of cold neutron transmission measurements of clathrate hydrates and graphite compounds	Dr XU, Shuqi	MO-267
[502] Multi-Incident-angle Neutron Reflectometer with Focusing Optics at SOFIA (J-PARC)	YAMADA, Masako	MO-269
[240] The High Brilliance Neutron Source Target Stations	ZAKALEK, Paul	MO-271
[297] Residual stresses in the bronze matrix composite surface deposits after laser melting injection	ZHANG, Xingxing	MO-273

[229] Polarizing neutron optics with higher reflectivity, polarization and no magnetic coercivity	ZUBAYER, Anton	MO-275
[495] A 3T compatible in-situ 3He analyser for KWS1	SALHI, zahir	MO-277