



# ANBUG-AINSE Neutron Scattering Symposium, AANSS 2020

## Thursday 12 November 2020

### Poster Session: Poster Session (17:00-18:00)

time	[id] title	presenter
17:00	[9] Synthesis and structure of $AlLaTiO_4$ and $A_2La_2Ti_3O_{10}$ ( $A = Na^+, K^+$ ) Ruddlesden-Popper type photocatalysts	LI, Junwei
17:01	[114] Quokka, the Pinhole Small-Angle Neutron Scattering Instrument at ANSTO	WOOD, Kathleen
17:02	[40] PELICAN –a Time of Flight Cold Neutron Spectrometer – New Capabilities	Dr YU, Dehong
17:03	[93] Wombat – the high intensity diffractometer at OPAL	STUDER, Andrew
17:04	[53] Status, statistics, and recent research highlights from Echidna	AVDEEV, Max HESTER, James WANG, Chin-Wei
17:05	[39] Recent scientific highlights from the Pelican user programme	Dr YU, Dehong
17:06	[101] New cell for studying porosity under mechanical and chemical stress	JI, Yeping
17:07	[45] Scientific computing support for neutron scattering experiments at ANSTO	Dr KUTTEH, Ramzi
17:08	[25] Polarised neutron capabilities at ACNS	MANNING, Andrew
17:09	[63] Development of Direct Laser Melting (DLM) deposition system for in-situ use on neutron beam instruments	BALDWIN, Chris
17:10	[103] SANS time-of-flight instrument Bilby at ACNS, ANSTO	SOKOLOVA, Anna
17:11	[23] Recent highlights from the cold-neutron triple-axis spectrometer SIKA	YANO, Shinichiro
17:12	[44] Taipan – recent results from the thermal spectrometer at ANSTO	RULE, Kirrily
17:13	[43] Developments on the Platypus Neutron Reflectometer	HOLT, Stephen
17:14	[102] The ANSTO contribution to a project to provide experimental standards for SAS profile prediction	WHITTEN, Andrew
17:15	[57] QCM-D and Neutron Reflectometry Study of Effect of Plasma Treatment on Cellulose-Mucin Interactions Towards ETSA	Mr SIDDIQUE, Arslan
17:16	[18] Biomedical Applications Of Model Membranes	ASHENDEN, Alex
17:17	[100] New insights into colloidal phase transitions using neutron scattering techniques	CHEA, Katherine
17:18	[49] Exploring a Gallium-Tantalum Dual Doped Lithium Garnet	CHRISTOPHER, Timothy
17:19	[21] Deciphering the quaternary structure of PEDOT:PSS solution by combining SAXS and SANS characterizations	Prof. ZHANG, PENG Ms LIU, Zhen
17:20	[38] Investigating methods of minting Ancient Greek silver plated copper coins: studies in Neutron Tomography, Texture and Phase Analysis.	OLSEN, Scott
17:21	[80] Elucidation Of The Wave Function Of The Ground Doublet In A Tb Complex Using INS In A Magnetic Field	Dr CALVELLO, Simone MOLE, Richard
17:22	[64] Magnetic properties of the porous coordination polymer $Ni_3(OH)_2(C_4O_4)_2 \cdot 3D_2O$	MOLE, Richard

17:23	[98] Assisting polarized neutron experimentalists: Extracting magnetic depth profiles from ab-initio calculations	Dr DAVID, Cortie
17:24	[73] Influence of tempering and surface grinding on the residual stress of 415SS laser clad hypereutectoid rail components	KENDALL, Olivia
17:25	[94] A high-performance and long-cycle-life spinel lithium-ion battery cathode achieved by site-selective doping	Mr LIANG, Gemeng
17:26	[12] Lead-free (Ag,K)NbO <sub>3</sub> materials for high-performance energy conversion	Dr LIU, Zhen
17:27	[82] Understanding the structural disorder of (Ag <sub>x</sub> Cu <sub>1-x</sub> ) <sub>2</sub> ZnSnSe <sub>4</sub> based Kesterite semiconductor by neutron diffraction study.	Ms QUADIR, Shaham
17:28	[72] Neutron Study of Magnetic Phase Transition in SrCoO <sub>3</sub> Thin Films	YICK, Samuel
17:29	[15] Understanding disorder in the Y <sub>2</sub> Sn <sub>2-x</sub> Zr <sub>x</sub> O <sub>7</sub> pyrochlore oxides	MARLTON, Frederick
17:30	[70] Element Effects on High-Entropy Alloy Vacancy and Heterogeneous Lattice Distortion Subjected to Quasi-equilibrium Heating	HUANG, E-Wen
17:31	[14] In situ Neutron Diffraction Study on Layered Oxides Na <sub>0.5</sub> Ni <sub>0.25</sub> Mn <sub>0.75</sub> O <sub>2</sub>	LIU, Jiayu
17:33	[54] Disorder By Design: Long- and Short-Range Pyrochlore Ordering	MULLENS, Bryce
17:34	[69] Composition and temperature dependent structural investigation of perovskite-type sodium-ion solid electrolyte series Na <sub>1/2-x</sub> La <sub>1/2-x</sub> Sr <sub>2x</sub> ZrO <sub>3</sub>	YANG, Frederick
17:35	[78] Canted magnetism in modulated thin-film superlattices	PAULL, Oliver
17:36	[108] Giant shifts of crystal field excitations with temperature as a consequence of internal magnetic exchange interactions	O'BRIEN, Joel
17:37	[85] High-q, High Intensity Small Angle Neutron Scattering to Probe Formaldehyde-Methanol-Water Mixtures	DWIVEDI, Swarit
17:38	[47] Synthesis-Controlled Polymorphism and Magnetic Properties of Li <sub>3</sub> Co <sub>2</sub> SbO <sub>6</sub>	BROWN, Alex
17:39	[22] Diffuse Scattering Studies from a Martensitic Fe-Pd Alloy	Dr FINLAYSON, Trevor
17:40	[87] Scaling behaviour of the skyrmion phases of Cu <sub>2</sub> OSeO <sub>3</sub> single crystals from small angle neutron scattering	Mr SAUCEDA FLORES, Jorge Arturo
17:41	[109] Neutron Laue Diffraction - A spotted history, a scintillating future	Prof. MCINTYRE, Garry
17:42	[26] In situ diagnostics and optimization of single crystal compound scintillator and semiconductor materials through energy-resolved neutron imaging	Dr TREMSIN, Anton
17:43	[84] Opportunities for Catalysis Studies using the Beryllium Filter Spectrometer	STAMPFL, Anton
17:44	[56] Imaging the invisible: resolving polymer brush structure through a freeform Bayesian analysis of neutron reflectometry data	GRESHAM, Isaac
17:45	[97] Crystal field interactions in the chiral compounds \$RNi_3Ga_9\$ (R = Tb, Dy, Ho and Er) studied by inelastic neutron scattering	GIL, Luís LORA-SERRANO, Raimundo
17:46	[30] refnx - The Next Generation of Reflectometry Analysis Software	NELSON, Andrew
17:47	[113] Upgrades to the Kowari sample positioning system	REID, Mark
17:48	[77] Koala, a versatile single-crystal diffractometer	Dr PILTZ, Ross O.
17:49	[58] Observing the synthesis of a polymer brush, molecule by molecule	GRESHAM, Isaac
17:50	[79] Bottom-up fabrication of magnonic crystals utilizing polyoxometalates and block copolymers	Mr DANIEL, Clyde
17:51	[27] Hydrogels with tuneable dissipation for mechanotransduction studies	Mr NARASIMHAN, Badri Narayanan

17:52	[8] Topological barrier for skyrmion lattice formation in MnSi	LEISHMAN, Allan
17:53	[51] Progress with Hot Commissioning and First User Experiments on the SPATZ Neutron Reflectometer	HUANG, Tzu-Yen
17:54	[74] TBAB semi-clathrates studied by Quasi Elastic Neutron Scattering (QENS) using Emu, the high resolution backscattering spectrometer at ANSTO	KLAPPROTH, Alice
17:55	[96] SANS study of Silica Aerogel as Model Material for Rock	VU, Phung Nhu Hao
17:56	[19] Superconductor sandwiches	MALLETT, Ben
17:57	[115] KOOKABURRA, THE ULTRA-SMALL-ANGLE NEUTRON SCATTERING INSTRUMENT AT ANSTO	DE CAMPO, Liliana MATA, Jitendra
17:58	[81] Magnetic Structure and Magnetocaloric Properties of LaMn <sub>2</sub> Ge <sub>2</sub>	Prof. 2 CAMPBELL , S J
17:59	[34] Neutron scattering unravels the structure of tunable fibrin networks	WANG, Zhao
17:59	[36] Synthesis of New Cuprate's through High Pressure Chemical Vapour Transport	SPASOVSKI, Martin
17:59	[107] A structural and magnetic investigation of the skyrmion host material doped Cu <sub>2</sub> OSeO <sub>3</sub>	ROV, Rosanna
17:59	[92] 4d Transition-Metal Substitution into magnetically frustrated A <sub>1</sub> B <sub>3</sub> Si <sub>2</sub> Sn <sub>7</sub> O <sub>16</sub> structures	VELLA, Joseph
17:59	[31] Insights into doped trirutiline structures gained through neutron diffraction	PATEL, Sneha