	HIRES 2023			December 2023
	Synergies in High RESolution Spectroscopy			DOUGHIJUI ZUZU
	12 Tuesday			15 Friday
8:45-9:00	Opening – Ken Andersen	13 Wednesday	14 Thursday	
9:00-9:20	Session Chair: NN Bernhard Frick (invited)	Session Chair: F. Schreiber Anita Girelli (invited)	Session Chair: T. Keller Romain Sibille (invited)	Session Chair: F. Juranyi Juan Colmenero (invited)
	Introduction to Neutron Backscattering Spectroscopy and overview over instrument developments and applications	Diffusion during protein phase separation probed with x-ray and neutron scattering	High-resolution neutron spectroscopy of low-energy excitations in quantum spin ice materials	Neutron spectroscopy with polarisation analysis: the key to unveil coherent scattering of liquids and glass-forming
9:20-9:40				systems at the mesoscale
9:40-10:00	Goran Nilsen (invited) Recent developments in polarized neutron spectroscopy at ISIS	Wolfgang Doster High resolution problems with biological samples	Emma Lenander Magnetically frustrated dynamics on the Cairo pent agonal lattice	Dimitrios Bessas Phonon spectroscopy using X-rays and a nuclear resonance
10:00-10:20		Masato Matsuura High-resolution measurements on inelastic and quasielastic neutron scattering at TOF near backscattering spectrometer DNA for hardmatters	Danny Mannix Exploiting polarised neutron and ultrafast X-ray pump-probe synergies to reveal the spin and heat dynamics in spin caloritronics	Y Z Unusual dynamics of tetrahedral liquids caused by the competition between dynamic and chemical heterogeneity
10:20-10:40		COF		and chemical neterogeneity
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10:40-11:00	Session Chair: F. Mezei Peter Falus (invited)	Session Chair: P. Deen Lukas Beddrich	Session Chair: R. Biehl Michihiro Nagao	Session Chair: J.M. Zanotti Antonio Faraone
	Neutron Spin Echo on WASP	Comparison of time-of-flight with MIEZE spectroscopy of H ₂ O: Necessity to go beyond the spin-echo approximation	Collective lipid acyl tail dynamics and membrane viscosity	Q-dependent collective relaxation dynamics of glass-forming liquid Ca _{0.4} K _{0.6} (NO ₃) _{1.4}
11:00-11:20		Olaf Holderer SNS-NSE: First decade of operations	Antonino Calio Unravelling the mechanisms of adaptation to high pressure in proteins	Henrich Frielinghaus The dynamics of ionic liquids in mild confinement
11:20-11:40	Bela Farago (invited) Matching NSE and TOF together	Nicolas R de Souza Emu µeV-resolution neutron spectrometer at ANSTO: Capabilities and complementarities	Felix Roosen-Runge Structure and dynamics during hydrophobic collapse of elastin-like polypeptides	Jon Maiz Exploring the impact of composition and cross-linking degree on single-chain nanoparticles derived from
11:40-12:00		Philipp Gutfreund Rheo-Neutron Spin Echo spectroscopy	Alessandro Paciaroni Diffusive dynamics of bacterial proteome as a proxy of cell death	Maksim Plekhanov QENS study of citrate dynamics on the surface of iron oxide nanoparticles
12:00-14:00		LUN	СН	
	Session Chair: B. Frick	Session Chair: V. Garcia Sakai	Session Chair: A. Arbe	End of meeting
14:00-14:20	Fankang Li (invited) The Larmor labeling program at ORNL for high resolution neutron diffraction and spectroscopy.	Rony Granek (invited) Dynamic structure factor of undulating vesicles: Finite-size, spherical geometry, and membrane viscosity effects with application to	Margarita Kruteva (invited) Different aspects of polymer dynamics probed by neutron spin-echo and PFG NMR	
14:20-14:40		neutron spin echo experiments		
14:40-15:00 15:00-15:20	Pascale Deen (invited) The spectroscopy suite of the ESS	Virginie Marry (invited) Water dynamics in clays: coupling molecular dynamics and NSE experiments	Quentin Berrod (invited) Energy related materials probed with neutrons: electrolytes, nanoconfinement and multiscale dynamics	
13.00-13.20				
15:20-15:40	F. Schreiber, F. Roosen-Runge Round Table: Future of NSE at ESS?	COF	FEE	
4F.40.40.00		Session Chair: H. Frielinghaus	Session Chair: A. Faraone	
15:40-16:00	COFFEE	Arantxa Arbe Collective dynamics and self-motions in the van der waals liquid tetrahydrofuran from meso- to inter-molecular scales disentangled by neutron spectroscopy with polarization analysis	Fanni Juranyi TOF and BS synergies to deal with increasing complexity in materials research	
16:00-16:20	Guidehall visits	Ralf Biehl Polyelectrolytes: Interchain hydrodynamic interaction and internal friction	Peter Fouquet Hydrogen mobility and reactivity in MoS ₂ catalyst	
16:20-16:40		Laura-Roxana Stingaciu Probing the secrets of life with neutron scattering: high resolution spectroscopic techniques to unveil dynamics insights into proteins, living cells, and	Kanming Shi Molecular dynamics in the metal halide perovskites FASnX ₃ (X = Cl, Br, I) investigated using quasi-elastic neutron scattering	
16:40-17:00		nlants	Lukas Fine Hydrogen dynamics in the nitride-hydride Ca ₃ CrN ₃ H	
17:00-17:20		Poster session with "aperitive dinatoire"		
19:30-22:30			Workshop dinner in the city	