

GNeuS Webinar Call N. 3

30 November 2023

14:00-16:50

Programme

Update 29.11.2023

Time	Description	Speaker
14:00	Welcome	K.Friese
14:10	Spin-selective detectors for quantum sensing with neutrons	S.Degenkolb (on behalf of R.Georgii)
14:15	Dynamical correlation between hydration water and head group of phospholipids at different hydration levels by QENS, complemented by SANS, SAXS and light scattering and absorption methods	A.Radulescu
14:20	Biomimetic collagen materials	M.Kruteva (on behalf of S.Förster)
14:25	Solid Polymer Electrolytes for Next Generation Li-Ion Batteries	M.Kruteva (on behalf of S.Förster)
14:30	Data reduction for multi-Ei neutron time-of-flight at long-pulse sources	C.Franz
14:35	Molecular scale insights in cryo- and anhydro- biology with neutron diffraction	C.Garvey
14:40	Local Dynamics of Model Membrane Systems probed by Neutron Spectroscopy	C.Garvey
14:45	Mechanistic understanding of the formation of networks in food gels	C.Garvey
14:50	High-pressure cells at MLZ	A.Grzechnik
14:55	High-brilliance and high-flux cold neutron source utilizing high-aspect ratio rectangular para-hydrogen moderators	A.Ioffe
15:00	Scattering meets Carbon fibre production	M.Kruteva
15:05	Topological glass transition: from synthetic ring polymers to DNA	M.Kruteva
15:10	In situ neutron imaging to study ammonia sorbents	R.Kumar
15:15	Prompt Gamma Neutron Activation Analysis with Neutron Time of Flight	E.Mauerhofer
15:20	Using machine learning methods for the analysis of neutron scattering data	J.F.Moulin
15:25	Simulating the magnetic domain structure of electrical steel and the resulting ultra-small-angle scattering of neutrons with respect to material properties and applied magnetic field	T.Neuwirth
15:30	Would you like to become a founder of a new neutron beamline? – Development of a neutron beamline for crystals with giant unit cell dimensions	T.Schrader
15:35	A better mechanistic understanding of the function of newly optimized plastic digesting enzymes	T.Schrader
15:40	Full investigation of Advanced Engineering Materials	C.Solis
15:45	Neutron scattering on emergent quantum materials	Y.Su
15:50	Development of a time-of-flight cold neutron imaging instrument for HBS	P.Zakalek
15:55	Dynamics of intrinsically disordered proteins: A concerted experimental and theoretical study	A.Stadler

16:00	Generating synthetic myelin-like structures for molecular neuroscience	A.Stadler
16:05	Lithium – Ion Batteries: Identifying the Perfect Polymer Electrolyte !	M.Ohl
16:10	AI-based classification of scattering patterns	M.Kruteva (on behalf of S.Förster)
16:15	Investigating Next-Generation Hydrogel: AAP-Based Solutions for Enhanced Wound Healing	T.Sharma (on behalf of J.Allgaier)
16:20	SANS+VSANS at CANS	J.Voigt
16:25	GNeuS Application package and online application system	F.Carsughi
16:45	Question time	
17:00	End	