

HIRES 2026

Synergies in High RESolution Spectroscopy

PROGRAM



	Tuesday 10 March	Wednesday 11 March	Thursday 12 March	Friday 13 March
From 8:30	Registration			
9:00-9:25	9:15 Welcome ILL	Elsa Lhotel (Invited) Enhanced dynamics in disordered non-Kramers spin ice Ho ₂ (Ti _{1-x} Hf _x) ₂ O ₇	Olivier Delaire (Invited) Atomic dynamics studied with INS, QENS and large-scale atomistic simulations	Paulina Szymoniak (Invited) From Molecular Mobility to Macroscopic Recyclability – A Multiscale Study on Vitrimers
9:25-9:50	John Ross Stewart (Invited) Wide angle neutron polarization analysis time of flight spectroscopy at ISIS	Lukas Beddrich The influence of dipolar interactions on the critical dynamics in nickel	Aliki Gerakianaki From Atomic Motion to Catalytic Function: Unraveling Hydrogen Dynamics in MoS ₂ through High Resolution Neutron Techniques	
9:50-10:15				
10:15-10:40	Coffee break			
10:40-11:05	Adrien Perrichon Update on VESPA, the vibrational neutron spectrometer at the ESS	David Tam Magnetic studies in a rare earth Kitaev candidate	Oskar OJSTEDT Atom-scale dynamics in germanium-based hybrid metal halide perovskites	Dieter Richter Dynamics of Polymer Rings in Ring-Linear Blends combining Rheology and Neutron Spin Echo Spectroscopy
11:05-11:30	Frederic Bourdarot ZETA+ : First successes	Oystein Fjellvag Spinon continuum of a triangular lattice ising candidate	Timothy Ziman Theory of Spin Seebeck effect and low-lying crystal field excitations in a Rare-Earth Iron Garnet	Jack Rooks Correlating QENS with Rheology in Polymer Nanocomposites
11:30-11:55	Chuyi Huang Towards the development of polarization analysis with high energy resolution for SPHERES	Thomas Keller Lifetimes of spin excitations with three-axis spin-echo	Johanna Jochum Extending MIEZE spectroscopy towards thermal wavelengths	Aastha Tejasvi Rheo-NSE: Probing dynamics of entangled polymer blends under shear.
12:00-14:00	Lunch			
14:00-14:25	Tatsuhito Matsuo (Invited) Dynamics and structure of proteins and lipids in context of diseases using neutron scattering and synchrotron radiation	Juan Colmenero (Invited) Universal behavior of mesoscopic dynamics in molecular liquids: spectroscopy with polarized neutrons and MD-simulations	Antonio Faraone (Invited) Structural relaxation and nano-domain dynamics in highly concentrated electrolytes for zinc anode batteries	
14:25-14:50	Ralf Biehl Diffusion, search and attack motions of antibodies	Mohammad Nadim Kamar A combined QENS and NMR study of the dynamics of the deep eutectic solvent ethaline	Arantxa Arbe On the origin of the non-dispersive mode in glass-forming liquids: the case of squalane	
14:50-15:15	Olaf Holderer Structure and dynamics of oil/water interfaces in emulsions	Denis Morineau Effect Surface Chemistry on the Properties of Nanoconfined Water	Anand Kumar Tiwari Pressure dependent dynamical investigation of relaxations associated with hydrogen bonding in 1-propanol	
15:15-15:40				
15:40-16:05	Coffee break			
16:05-16:30	Guidehall visits	Geoffrey McNulty Combining Inelastic Neutron Scattering with Nuclear Magnetic Resonance Spectroscopy for Molecular Hydrogen Endofullerenes	YuanChi Yang The Role and Dynamics of Interstitial Water and Sodium in Hydrated Manganese Iron Prussian Blue Analogs: A Synergistic Study Combining NPD, QENS, and MLIP-MD	
16:30-16:55		Maria Rescigno High-pressure QENS: identifying plastic phases in planetary ices	Michaela Zamponi Cooperative tracer chain dynamics in highly entangled polymer melts	
16:55-17:20		Amalie Davidsen KVASIR: A backscattering neutron spectrometer for hard condensed matter at ESS	Benedetta Rosi Self and collective dynamics in a highly crosslinked polybutadiene rubber	
	Wine and Cheese	Poster session with aperitif		
			Conference Dinner Grenoble downtown	