

# Monday 20th of september

Time	Title - Speaker	Room	Page
13h30	Welcome Ceremony	Main Room	
13h45	The contribution of neutron scattering to the low-temperature water conundrum J. Teixeira	Main Room	6
14h30	Study of the excitations for the understanding of the matter properties K. Beauvois	Room A	7
14h30	Multiscale nature of water confinement in clay porous media E. Ferrage	Room B	8
15h10	Break	Mingling Floor	
15h40	In-situ neutron diffraction during reversible deuterium loading of Mn-substituted TiFe alloys E. Dematteis	Room A	9
15h40	Nanoconfining H <sub>2</sub> - manipulation of the phase diagram and consequences of reduced freedom L. Terry	Room B	10
16h00	QENS study of the diffusivity of hydrogen in MoS <sub>2</sub> V. Kuznetsov	Room A	11
16h00	Clay nanotubes: order-disorder transition and water confinement A. D'Angelo	Room B	12
16h20	Experimental probe of the non-bonded interaction potential in endofullerenes: <sup>3</sup> He@C <sub>60</sub> study M. Aouane	Room A	13
16h20	Revealing molecular level structure property relationships of Nafion composite proton exchange membranes K. Smith	Room B	14
16h40	Importance of lattice softness and phonon anharmonicity for the optoelectronic properties of 3D, 2D and 0D halide perovskites J. Even	Room A	15
16h40	Linking structural and mechanical properties within hydrogels based on ionene polyelectrolytes and clay nanoplatelets C. Hotton	Room B	16
17h00 17h15 17h30 17h45	News from neutrons centers : ILL — J. Jestin ESS — A. Hiess 2FDN — M. Plazanet LLB — G. Chaboussant	Main Room	

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13h30	Fishing for polymer and nanoparticles in nanocomposites using SANS, SAXS, and simulations J. Oberdisse	Main Room	18
14h00	PhD Award presentation	Main Room	
14h45	Break	Mingling Floor	
15h10	Continuum of magnetic excitations and short-range order in the 2D quantum triangular magnet ErMgGaO <sub>4</sub> S. Bhattacharya	Room A	19
15h10	Dynamics of apolipoprotein B-100 assessed by incoherent neutron scattering A. Cisse	Room B	20
15h30	Spin Dynamics and Unconventional Coulomb Phase in Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> S. Petit	Room A	21
15h30	Assessing the <i>in situ</i> protein corona structure L. Marichal	Room B	22
15h50	Magnetic properties of single-crystalline clinoatacamite, Cu <sub>2</sub> Cl(OH) <sub>3</sub> , a distorted kagomé compound L. Heinze	Room A	23
15h50	Effects of stabilizers on the protein-like dynamical transition of PNIPAM: a neutron scattering study B. Rosi	Room B	24
16h10	Structural and magnetic disorder in defect spin ice Ho <sub>2</sub> Ti <sub>1.5</sub> Sc <sub>0.5</sub> O <sub>6.75</sub> T.S. Northam	Room A	25
16h10	Diffusive dynamics in crowded solutions containing two types of proteins L. Colin	Room B	26
16h30	Neutron Diffraction Study of NaMgD <sub>3</sub> at High Pressure J.A. Nunez	Room A	27
16h30	Picosecond dynamics of polymorphs of lysozyme aggregates with different levels of cytotoxicity T. Matsuo	Room B	28
16h50	Implementation of in-situ neutron characterization techniques for the characterization of metal additive manufacturing B. Ozcan	Room A	29
16h50	Monitoring food structure in plant protein gels during digestion: from rheometry to small-angle neutron scattering M. Napieraj	Room B	30
17h10	Exploring the D–Hf phase diagram using in-situ neutron diffraction M. Dottor	Room A	31
17h10	Insertion and activation of functional bacteriorhodopsin in a floating bilayer T. Mukhina / G. Fragneto	Room B	32
17h30	Présentation ENSA et AG SFN	Main Room	

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13h30	Loop currents in quantum matter P. Bourges	Main Room	34
14h30	In situ study of energy materials by neutron diffraction L. Laversenne	Room A	35
14h30	Following surfactant assemblies in foams A. Salonen	Room B	36
15h10	Break	Mingling Floor	37
15h40	Unforeseen combination of magnetism and superconductivity in the pressurized BaFe <sub>2</sub> Se <sub>3</sub> spin ladder W. Zheng	Room A	38
15h40	Revealing the nature of $\pi$ ···H – O weak interaction via neutron total scattering C. Di Mino	Room B	39
16h00	Advance magnetocaloric materials for adiabatic demagnetization: Spin dynamics of the quantum dipolar magnet Yb <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> E. Riordan	Room A	40
16h00	(De)stabilization of non-ionic foam with ions J. Lamolinaire	Room B	41
16h20	Surface magnons and crystalline electric field shifts at the nanoscale in superantiferromagnetic NdCu <sub>2</sub> E.M. Jefremovas	Room A	42
16h20	SANS studies of polyelectrolytes in organic media A. Gulati	Room B	43
16h40	Field-space anisotropy in the magnetic phase diagrams and multipolar excitations of Ce <sub>1-x</sub> La <sub>x</sub> B <sub>6</sub> measured in a rotating magnetic field D.S. Inosov	Room A	44
16h40	Surface pressure-induced interdiffused structure evidenced by neutron reflectometry in cellulose acetate/polybutadiene Langmuir films A. El Haitami	Room B	45
17h00	Instrumentation session - On the use of statistical choppers to increase the performances of diffraction instruments on HiCANS — F. Ott	Main Room	46-49
17h20	- LLB CRG Inelastic instruments at ILL: from IN6 to Sharp, then Sharp+ — J.-M. Zanotti		
17h40	- Autonomous Experiments in Inelastic Neutron Scattering — M. Boehm		
18h00	- NeXT-Grenoble, the Neutron and X-rat Tomograph at ILL — A. Tengattini		