

Monday, July 1st

VII European Conference on Neutron Scattering 2019

Saint-Petersburg Hall, first floor

Chair: **Albert Furrer**

09:00 – 09:45	Plenary lecture: Ferenc Mezei (ESS, Sweden) “Facets of neutron economy”			
09:45 – 10:30	Plenary lecture: Giulia Festa (CENTRO FERMI, Italy) “Neutrons for cultural heritage”			
	<p>Neutron sources and facilities Saint-Petersburg Hall, first floor Chair: Thomas Gutberlet</p>	<p>Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Lucile Mangin-Thro</p>	<p>Functional Materials Pavlovsk Hall, ground floor Chair: Peter Mueller-Buschbaum</p>	<p>Engineering Applications Kronshtadt Hall, ground floor Chair: Ralph Gilles</p>
11:30 – 12:00	<p><u>Invited talk</u> Valery Shvetsov (JINR, Russia) “Pulsed Fast Reactor IBR-2 after Modernization”</p>	<p><u>Invited talk</u> Shibabrata Nandi (JCNS (FZJ), Germany) “Superconductivity and magnetism in Fe pnictides”</p>	<p><u>Invited talk</u> Anatoly Balagurov (JINR, Russia) “Cluster-like structure of Fe-based alloys with enhanced magnetostriction”</p>	<p><u>Invited talk</u> Gizo Bokuchava (JINR, Russia) “Residual stress measurements using correlation RTOF (Fourier) diffractometry at long-pulse neutron source”</p>
12:00 – 12:15	<p><u>Invited talk</u> Robert McGreevy (ISIS, UK) “ISIS - from TS1 to TS2 to ISIS-II”</p>	<p><u>Invited talk</u> Alistair Cameron (TU Dresden, Germany) “Rotation of the magnetic vortex lattice in the noncentrosymmetric</p>	<p><u>Invited talk</u> Francoise Damay (LLB, France) “Fe_{3-x}Mn_xBO₅: an extraordinarily rich magnetic phase diagram”</p>	<p>Stefano Deledda (Institute for Energy Technology, Norway) “Neutron Imaging study of Strontium Chloride Ammine system for Heat Storage”</p>

12:15 – 12:30		superconductor Ru ₇ B ₃ ”		Christopher Garvey (Malma University, Sweden) “1D Imaging of Flocculating and Sedimenting Particles”
12:30 – 12:45	Stefan Mattauch (JCNS (FZJ), Germany) “Latest developments of neutron scattering instruments of the JCNS at MLZ”	Alexandre Ivanov (ILL, France) “Anisotropy of magnetic excitations in iron-based superconductors”	Katarzyna Rećko (University of Białystok, Poland) “Magnetism of surface modified and gallium doped magnetite particles”	Ranggi Sahmura Ramadhan (Coventry University, UK) “High-resolution residual strain mapping by energy-dispersive neutron imaging”
12:45 – 13:00	Winfried Petry (MLZ - TUM, Germany) “High-density uranium fuel for high performance research reactors”	Alexander Backs (MLZ - TUM, Germany) “A multiscale approach to the formation of vortex lattice domains in the intermediate mixed state of the type-II/1 superconductor niobium”	Mogens Christensen (Aarhus University, Denmark) “Structure and Texture of Nanosized Magnetic Hexaferrites”	Premysl Beran (ESS ERIC, Sweden) “In-situ neutron diffraction study of Ni-addition influence on phase transformations in Co-Re-Cr high-temperature alloys”
13:00 – 13:15	Tianfu Li (China Institute of Atomic Energy, China) “Neutron Facilities at China Advanced Research Reactor”	Mehmet Ramazanoglu (Istanbul Technical University, Turkey, Brockhouse Institute for Materials Research, Canada) “Magnetic Excitations in The Cubic Superconductor CrRu”	Jose Maria Porro (BCM, Spain) “Powder and single crystal neutron diffraction in ferromagnetic shape memory alloys: structure vs magnetism”	Cristian Dragolici (IFIN-HH, Romania) “Cement-based materials for the conditioning of low and intermediate level radioactive waste: neutron scattering studies”

13:15 – 13:30	Jamie Schulz (Australian Centre for Neutron Scattering, Australian Nuclear Science & Technology Organisation, Australia) “Current status of OPAL, the Australian Research Reactor”	Vladimir Dmitrienko (Institute of Crystallography, FSRC, Crystallography and Photonics, RAS, Russia) “The Hidden Order in URu ₂ Si ₂ : Neutron scattering as a probe of intra-atomic anti-toroidal vortices”	Uliana Koneva (Immanuel Kant Baltic Federal University, Russia) “GISAS studies of the shape, size and layout of silicon nanowhiskers”	Joana Rebelo Kornmeier (MLZ - TUM, Germany) “Non-destructive neutron surface and high spatial resolved residual stress analysis”
Special 25th anniversary ENSA session Saint-Petersburg Hall, first floor				
14:45 – 14:55	Welcome by Christiane Alba-Simonesco , ENSA Chair			
14:55 – 15:10	Peter Gehring , NSSA Vice-President, Overview of the NSSA activity			
15:10 – 15:25	Brendan J. Kennedy , AONSA President, Overview of the AONSA activity			
15:25 – 15:40	Andrew Venter , NESCA, South Africa, Vision of the Neutron Scattering in Africa			
15:40 – 16:25	2019 Walter Hälgl Prize of the ENSA: awarding ceremony Lecture by the 2019 Walter Hälgl Prize Winner			
16:25 – 16:55	Neutron Instrumentation and Innovation Award of the ENSA: awarding ceremony Lecture by the 2019 NI&I Award Winner			

17:55 – 17:20	Medal of the Russian Neutron Scattering Society for “Outstanding Achievements in the field of Neutron Scattering”: awarding ceremony Lecture by the 2019 RNSS Medal Winner
17:20 – 17:25	Peter Müller-Buschbaum , Heinz Maier-Leibnitz Zentrum (MLZ): platinum sponsor of ECNS 2019
17:25 – 17:30	Michael Schneider , Swissneutronics (platinum sponsor of ECNS 2019) “20 Years of Swiss Quality for Excellence in Neutron Science“

Tuesday, July 2nd

VII European Conference on Neutron Scattering 2019

Saint-Petersburg Hall, first floor

Chair: **Laszlo Rosta**

09:00 – 09:45	Plenary lecture: Tatiana Guidi (ISIS, UK) “Neutron scattering techniques for molecular magnetism”			
09:45 – 10:30	Plenary lecture: Boris Toperverg (NRC “Kurchatov Institute – PNPI”, Russia) “Advances and perspectives of 3D neutron reflectometry in nanomagnetism, soft matter and life sciences”			
	<p>Neutron Instrumentation Saint-Petersburg Hall, first floor Chair: Ken Andersen</p>	<p>Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Grégory Chaboussant</p>	<p>Soft Matter Pavlovsk Hall, ground floor Chair: Margarita Kruteva</p>	<p>Thin Films and Interfaces Kronshtadt Hall, ground floor Chair: Maximilian Wolff</p>
11:30 – 12:00	<p><u>Invited talk</u> Sergey Kichanov (JINR, Dubna, Russia) “Neutron imaging at long-pulse sources: opportunities, results and perspectives”</p>	<p><u>Invited talk</u> Beatrice Grenier (ILL, France) “Tomonaga-Luttinger liquid spin dynamics in the quasi-one dimensional Ising-like antiferromagnet BaCo₂V₂O₈”</p>	<p><u>Invited talk</u> Anne-Caroline Génix (Université Montpellier, France) “Structure of adsorbed layers and of chains in polymer nanocomposites”</p>	<p><u>Invited talk</u> Nina-Juliane Steinke (ISIS Neutron and Muon Source, UK) “Magnetic order in topological insulator thin films: transition metal and rare earth doping”</p>

<p>12:00 – 12:30</p>	<p><u>Invited talk</u> Francesco Piscitelli (ESS, Sweden) “Detector developments in BrightnESS: beyond the limits of the current detector technologies for neutron scattering science”</p>	<p>Petronella Pascale Deen (ESS, Sweden) “Towards and understanding of the magnetocaloric effect”</p>	<p>Jaques Jestin (LLB, France) “SANS/USANS tunable multiscale nanoparticle ordering by polymer crystallization”</p>	<p><u>Invited talk</u> Yuri Nikitenko (JINR, Dubna, Russia) “Reflectometry with registration of secondary radiation at total neutron reflection”</p>
<p>12:30 – 12:45</p>	<p>Laurence Noirez (LLB, France) “Using Light to see Neutrons: a new 2D detector with high resolution”</p>	<p>Henrik Jacobsen (Oxford University, UK) “Strong quantum fluctuations co-existing with magnetic order in a pyrochlore iridate”</p>	<p>Andrea Orecchini (University degli Studi di Perugia, Italy) “Low-temperature Dynamical Transition in Concentrated Microgels”</p>	<p>Aljosa Hafner (Universite Libre de Bruxelles, Belgium, ILL, France) “Instabilities of buried polymer layers studied by specular and off-specular neutron reflectometry”</p>
<p>12:45 – 13:00</p>	<p>Julien Marchal (ILL, France) “Development of a large cylindrical Trench-MWPC detector for XTremeD neutron diffraction instrument”</p>	<p>Astrid Schneidewind (JCNS/MLZ, Germany) “Spin-wave dispersions in the antiferromagnetic phase AF1 of MnWO₄ based on the polar atomistic model in P2”</p>	<p>Maria Aranzazu Arbe (Centro de Física De Materiales CSIC-UPV/EHU, Spain) “Melts of Single-Chain Polymeric Nano-Particles: Exploring the Impact of Intra-Molecular Cross-Linking by Neutron Scattering, Dielectric Spectroscopy and Rheology”</p>	<p>Lucas Kreuzer (TUM - MLZ, Germany) “Phase transition kinetics in a doubly thermo-responsive block copolymer thin film followed with in-situ neutron reflectometry”</p>

<p>13:00 – 13:15</p>	<p>Sebastian Jaksch (JCNS (FZJ), Germany) “SoNDe high-flux neutron detector”</p>	<p>Markos Skoulatos (MLZ and Physics Department, TUM, Germany) “Putative spin-nematic phase in BaCdVO(PO₄)₂”</p>	<p>Kell Mortensen (NBI, University of Copenhagen, Denmark) “SANS studies of star-polymers and star-polymer gels exposed to stretch”</p>	<p>Alessandra Luchini (Niels Bohr Institute, University of Copenhagen, Denmark) “The role of phosphatidylserine lipids in tuning membrane protein domain location in supported membranes”</p>
<p>13:15 – 13:30</p>	<p>Bruno Guerard (ILL, France) “New prospects in ³He detector techniques”</p>	<p>Arsen Goukassov (LLB, France) “ Local susceptibility of frustrated pyrochlores. Polarized Neutrons and Point Charge model.”</p>	<p>Daria Noferini (JCNS at MLZ) “Disentangling polymer network and hydration water dynamics in pHEMA physical and chemical hydrogels”</p>	<p>Thomas Saerbeck (ILL, France) “Artificially Designed Magnetic Domain Patterns Investigated by Neutron Scattering”</p>
<p>15:00 – 16:00</p>	<p>Exhibition (Ground floor lobby, center) Poster Session 1 (Ground floor lobby) <i>1. Neutron Instrumentation, Optics, Sample Environment, Detectors and Software;</i> <i>2. Neutron Sources and Facilities;</i> <i>3. Fundamental Science</i></p>		<p>Pavlovsk Hall, ground floor Peter Willendrup (Technical University of Denmark, Denmark) “An online demo of the e-neutrons.org learning platform”</p>	

	Neutron Instrumentation Saint-Petersburg Hall, first floor Chair: Alexander Ioffe	Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Arsen Goukassov	Functional Material Pavlovsk Hall, ground floor Chair: Francoise Damay	Disordered Systems and Liquids Kronshtadt Hall, ground floor Chair: Wim G. Bouwman
16:00 – 16:30	<u>Invited talk</u> Peter Konik (NRC KI – PNPI, Russia) “Neutron guide system of the reactor PIK”	<u>Invited talk</u> Quentin Faure (University Grenoble Alpes, France) “Topological quantum phase transition in the Ising-like antiferromagnetic spin chain $\text{BaCo}_2\text{V}_2\text{O}_8$ ”	<u>Invited talk</u> Karin Schmalzl (JCNS (FZJ), Germany) “Insights into the magnetocaloric effect in MnFe_4Si_3 gained with inelastic neutron scattering”	<u>Invited talk</u> Aleksander Matic (Chalmers University of Technology, Sweden) “Structured liquids”
16:30 – 16:45	Mark Johnson (ILL, France) “ILL Modernisation Programme: Endurance. The ambitious renewal of the H15 cold neutron guide and instrumentation”	Irina Safiulina (ILL, France) “Magnetic excitations of a new potential spin liquid”	Alexandra Franz (Helmholtz-Zentrum Berlin, Germany) “ FAPbBr_3 - about the influence of deuteration: A temperature dependent neutron diffraction study”	Laszlo Almasy (Southwest University of Science and Technology, China) “Molecular aggregation in binary mixtures of cyclic amines with water: Thermodynamic, SANS and theoretical studies”
16:45 – 17:00	Nikolay Pleshanov (NRC KI - PNPI, Russia) “Mirror flippers: experiments and possible applications”	Artem Korshunov (NRC KI - PNPI, Russia) “Short-range and long-range ordering on the quasi-2D honeycomb layered $\text{Na}_2\text{Ni}_2\text{TeO}_6$ ”	Fanni Juranyi (Paul Scherrer Institut, Switzerland) “Water captured in the polysaccharide network of chia mucilage”	Sandrine Lyonnard (SyMMES, CEA-CNRS-UGA, France) “Ion dynamics in nanostructured ionic liquid crystals by QENS”

17:30 – 17:45	Felix J Villacorta (Consorcio ESS-Bilbao, Spain) “Neutron guide design optimization of MIRACLES, the time-of-flight / backscattering spectrometer at the European Spallation Source”	Alexander Tsirlin (University of Augsburg, Germany) “Breaking and re-arrangement of valence bonds in the triangular spin liquid YbMgGaO_4 ”	Peter Mueller-Buschbaum (TUM – MLZ, Germany) “Next generation solar cells studied with GISANS”	Olexander Tomchuk (JINR, Russia) “About the size cut-off effect on small-angle scattering from stochastic mass fractals”
17:45 – 18:00	Pierre Courtois (ILL, France) “Recent achievements in Neutron Optics at the ILL”	Marc Seifert (MLZ, TUM, Germany) “Neutron Depolarization Measurements of Quantum Critical Ferromagnets”	Monica-Elisabeta Lacatusu (Technical University of Denmark, Denmark) “Neutron imaging study of degradation in commercial Li-ion batteries”	Anne Stunault (ILL, France) “D3 at the ILL: structural studies of hydrogenous liquid and amorphous systems using polarised neutrons”
18:00 – 18:15	Alexandre Petoukhov (ILL, France) “Project of advanced solid-state polarizer for PF1B”	Heiko Trepka (MPI for Solid State Research, Germany) “Critical scattering in classical and quantum critical systems”	P. Klaus Pranzas (Helmholtz-Zentrum Geesthacht, Germany) “Characterisation of hydrogen storage materials with neutron imaging and scattering techniques”	Reiner Zorn (Juelich Centre for Neutron Science, Germany) “Cooperativity Length in a Glass-Forming Liquid Determined by a Combination of Neutron Spin Echo Spectroscopy and Calorimetric Methods”
18:15 – 18:30	Vladislav Syromyatnikov (NRC KI – PNPI, Russia) “New neutron supermirror polarizer”	Stanislav Nikitin (Max Planck Institute for Chemical Physics of Solids, Germany) “Pressure-induced evolution of magnetic excitations in CeCoSi ”	Maths Karlsson (Chalmers University of Technology, Sweden) “Local structure and dynamics of metal hydride-reduced BaTiO_3 samples investigated with inelastic and quasielastic neutron scattering”	SoHyun Park (Ludwig-Maximilians-Universität München, Germany) “Proton dynamic behaviour in hydrogen bond networks in oxyhydroxides”

<p>18:30 – 18:45</p>	<p>Thierry Bigault (ILL, France) “Mass production of neutron polarizing supermirrors for the WASP instrument at the ILL”</p>	<p><u>Invited talk</u> Lucile Mangin-Thro (ILL, France) “High-Tc superconductors and frustrated magnets on the D7 instrument at the ILL”</p>	<p><u>Invited talk</u> Michail Avdeev (JINR, Russia) “Nanoscale structure of electrochemical interfaces for lithium power sources by neutron scattering”</p>	<p>Igor Gapon (JINR, Russia) “Impact of the external magnetic and electric fields on behavior of ferrofluids at interfaces: neutron reflectometry data”</p>
<p>18:45 – 19:00</p>	<p>Sergey Klimko (LLB, France) “Development and first test on large angle RF-flipper”</p>			<p>Artur Glavic (Aarhus University, Denmark) “Structure and Slow Dynamics in Spontelectric Methyl-Formate”</p>

Wednesday, July 3rd

VII European Conference on Neutron Scattering 2019
Saint-Petersburg Hall, first floor
 Chair: **Andreas Schreyer**

09:00 – 09:45	Plenary lecture: Katia Pappas (TU Delft, Netherland) “Novel spiral and skyrmionic states”			
09:45 – 10:30	Plenary lecture: Richard A. Campbell (University of Manchester, UK) “Oppositely Charged Polyelectrolyte/Surfactant Mixtures at the Air/Water Interface: Dominance of Non-equilibrium Effects”			
	Neutron Instrumentation Peterhof Hall, ground floor Chair: Stefan Mattauch	Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Astrid Schneidewind	Soft Matter Pavlovsk Hall, ground floor Chair: Kell Mortensen	Neutron sources and facilities Kronshtadt Hall, ground floor Chair: Ferenc Mezei
11:30 – 12:00	<u>Invited talk</u> Earl Babcock (JCNS& MLZ, Germany) “Ultra Wide angle 3He polarization analysis for neutron spectroscopy, PASTIS on NEAT”	<u>Invited talk</u> Albert Furrer (Swiss Neutronics AG and PSI, Switzerland) “High-Tc Ferromagnetic Semiconductors: Fake or Fact?”	<u>Invited talk</u> Martin Dulle (JCNS (FZJ), Germany) “Quasicrystals from block copolymer micelles”	<u>Invited talk</u> Ken Andersen (ESS ERIC, Sweden) “Towards the full instrument suite of the European Spallation Source”
12:00 – 12:15	Goran Nilsen (ISIS Neutron and Muon Facility, UK) “Uniaxial polarization analysis on the LET time-of-flight spectrometer: first results”	Denis Salamatin (JINR, VIHPP, Russia) “Study of high-pressure cubic phase of RGe _{2.85} (R = Tb, Dy) by neutron diffraction”	Andrew J. Jackson (ESS, Sweden) “Self-assembly in deep eutectic solvents: from surfactant aggregation to protein folding”	Helen Walker (ISIS, UK) “Recent instrument developments in the Excitations Group at ISIS”

12:15 – 12:30	Holly McPhillips (ISIS Neutron and Muon Source, UK) “Development of hyperpolarized helium-3 spin-filters for polarised neutron experiments at the ISIS neutron and muon source”	Stanislav Podchezertsev (ILL, France) “Magnetic ordering features of the $\text{Co}_{5-x}\text{Zn}_x\text{TeO}_8$ spinel-type series”	Maximilian Wolff (Uppsala University, Sweden) “Solid-liquid interfaces: New insights and future opportunities”	Ken Andersen and Luca Zanini (ESS ERIC, Sweden) “Neutronic Design of the Bunker Shielding for the European Spallation Source”
12:30 – 12:45	Avishek Maity (Institute of physical chemistry, University of Goettingen, Germany) “Novel type polarization analysis using multi-analyzer setup @ PUMA, FRM II”	Henry Fischer (ILL, France) “Magnetic frustration in SrLn_2O_4 compounds studied by magnetic PDF-analysis”	Nico Carl (ILL, France) “Controlling self-assembly with light”	Konstantin Pavlov (NRC KI - PNPI) “Simulations of neutron scattering instruments at a compact source”
12:45 – 13:00	Takuya Okudaira (J-PARC Japan Atomic Energy Agency, Japan) “Polarized pulsed neutrons using a ^3He spin filter with an in-site SEOP method”	Werner Schweika (ESS, Sweden) “Chiral spin liquid ground state in a highly frustrated extended kagome system”	Vyacheslav Molchanov (MSU, Russia) “Self-assembled soft network of hybrid chains”	Jorg Voigt (JCNS, FZJ GmbH, Germany) “Compact Spectrometers for Compact Neutron Sources”
13:00 – 13:15	Valery Nesvizhevsky (ILL, France) “Fluorinated nanodiamonds as unique neutron reflector”	Manila Songvilay (University of Edinburgh, SPA, UK) “Anharmonic magnon excitations in non-collinear and charge-ordered $\text{RbFe}_2+\text{Fe}_3+\text{F}_6$ ”	Philipp Gutfreund (ILL, France) “Microscopic structure and dynamics of entangled polymers under shear flow - What neutrons can see”	<u>Invited talk</u> Thomas Gutberlet (JCNS, Jülich, Germany) “Making ESS a success - A Landscape of European accelerator based neutron sources”

13:15 – 13:30	Kirill Zhernenkov (JCNS, FZJ, MLZ, Germany) MARIA - The high-intensity polarized neutron reflectometer of JCNS	Ketty Beauvois (CEA, INAC/MEM-MDN, France) “Emergence of a dimer physics in the Cairo frustrated pentagonal magnet $\text{Bi}_2\text{Fe}_4\text{O}_9$ ”	Ruslan Smyslov (NRC KI – PNPI, Russia) “Nanocomposites based on Kamagataeibacter xylinus cellulose: Neutron studies”		
15:00 – 16:00	Exhibition (Ground floor lobby, center) Poster Session 2 (Ground floor lobby, left side) <ol style="list-style-type: none"> 1. <i>Soft Condensed Matter</i> 2. <i>Disordered systems & Liquids</i> 3. <i>Life Sciences</i> 4. <i>Cultural Heritage and Archaeometry</i> 		<p style="text-align: center;">Special session “Instrumental program and international cooperation around reactor PIK”</p> <p style="text-align: center;">Kronstadt Hall, ground floor</p> <p>V.Voronin (PNPI NRC KI) Russian national state program: recent progress</p> <p>V. Tarnavich (PNPI NRC KI) Instrument base of reactor PIK: perspectives</p> <p>M. Muller, A.Ioffe, W.Petry (MLZ: HZG, FZJ, TUM) Instrumental plans of German partners</p> <p>S. Mattauch (JCNS/FZJ) Potential contribution to PIK from CREMLIN+</p> <p>S.Grigoriev (PNPI NRC KI) PIK neutron facility as international interdisciplinary laboratory</p>		

	Neutron Instrumentation Peterhof Hall, ground floor Chair: Markus Strobl	Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Werner Schweika	Soft Matter Pavlovsk Hall, ground floor Chair: Anne-Caroline Génix	Solid State Chemistry Kronshtadt Hall, ground floor Chair: Anatoly Balagurov
16:00 – 16:30	<u>Invited talk</u> Margarita Russina (HZB, Germany) “Implementation of polarized neutron spectroscopy on TOF spectrometer NEAT at Helmholtz Zentrum Berlin”	<u>Invited talk</u> Marisa Medarde Barragan (PSI, Switzerland) “Stabilizing magnetic spirals in layered perovskites far beyond room temperature”	<u>Invited talk</u> Artem Feoktystov (JCNS, MLZ, Germany) “Magnetic nanoparticles: from self-assembly to drug targeting”	<u>Invited talk</u> Sergey Ya. Istomin (MSU, Russia) “Tuning the high-temperature thermal expansion properties of perovskite-related Co-containing oxides”
16:30 – 16:45	Alexandre Bertin (Institute of Solid State Physics, TU Dresden, Germany) “Bambus: a new inelastic neutron multiplexed analyzer for Panda at MLZ”	Igor Zobkalo (NRC KI – PNPI, Russia) “Control of magnetic chirality in $\text{Nd}_{1-x}\text{TbxMn}_2\text{O}_5$ by external electric field”	Margarita Kruteva (JCNS/FZJ, Germany) “Synthetic platform for the encapsulation of nanocrystals with covalently bound polymer shells”	<u>Invited talk</u> Anatoliy Senyshyn (MLZ, Germany) “Lithium diffusion pathways in modern solid state Li conductors”
16:45 – 17:00	Stephane Rols (ILL, France) “PANTHER: the new thermal time of flight spectrometer at the ILL”	Tim Tejsner (ILL, France) “Anomalous lattice dynamics in $\text{La}_{(2-x)}\text{Sr}_{(x)}\text{CuO}_{(4+y)}$: The role of static and mobile dopants”	Volker Koerstgens (TUM, Germany) “Hybrid solar cells with laser-ablated titania: morphology investigation of the active layer with TOF-GISANS”	

<p>17:30 – 17:45</p>	<p>Bernhard Frick (ILL, France) “IN16B - a most versatile high flux neutron backscattering spectrometer”</p>	<p>Niels Bech Christensen (TUD, Denmark) “Magnetic and magnetoelectric phases of LiNiPO₄ up to 55T”</p>	<p>Tom Arnold (University of Birmingham, UK) “Adsorption and interactions of polymer stabilised lipid nanodiscs with air-liquid and solid-liquid interfaces”</p>	<p>Brendan Kennedy (University of Sydney, Australia) “Magneto-Structural Relationships in 4d and 5d Oxides”</p>
<p>17:45 – 18:00</p>	<p>Jakob Lass (University of Copenhagen, Denmark) “CAMEA - A novel neutron spectrometer for extreme environment investigations”</p>	<p>J. Alberto Rodrigues Velamazan (ILL, France) “Effect of chemical substitution on the magneto-electric coupling of the (ND₄)₂[FeCl₅(D₂O)] hybrid multiferroic”</p>	<p>Hideki Seto (CROSS Neutron Science and Technology Center, Japan) “Dynamical behaviour of hydration water between lipid bilayers”</p>	<p>Holger Kohlmann (Leipzig University, Germany) “In situ investigation of hydrogenation reactions by neutron powder diffraction”</p>
<p>18:00 – 18:15</p>	<p>Matteo Zanetti (CNR, Italia, ISIS Facility, UK) “Crystal Analysers for Indirect-Geometry Broadband Neutron Spectrometers: Adding Reality to Idealised Design”</p>	<p>Navid Qureshi (ILL, France) “Proof of the elusive high-temperature incommensurate phase in CuO by spherical neutron polarimetry”</p>	<p>Wim G. Bouwman (Faculty of Applied Sciences, Delft University of Technology, Netherlands) “Rational design of food processing methods with aid of neutron scattering”</p>	<p>Andrea Piovano (ILL, France) “Understanding the microscopic origin of oxygen diffusion in ion conductors with complex structure”</p>

<p>18:15 – 18:30</p>	<p>Marcus Appel (ILL, France) “The BATS option for inverted TOF-Backscattering on IN16B: Design, performance and on going upgrades with variable focusing optics”</p>	<p>Alexei Belik (National Institute for Materials Science, Japan) “Unusual Spin Structures in Quadruple and Simple Exotic Perovskites”</p>	<p>Eleonore Mason (University of Bath, UK) “Localisation of Membrane Components in Lipid Cubic Phases”</p>	<p>Felix Fernandez-Alonso (ISIS, University College London, UK) “Recent Advances in Molecular Spectroscopy at the ISIS Pulsed Neutron & Muon Source”</p>
<p>18:30 – 18:45</p>	<p>Jeroen Plomp (Delft University of Technology, Netherlands) “LARMOR a TOF instrument with many modes”</p>	<p>Petr Cermak (Charles University, Czech Republic) “Neutrons as a key method for accessing magnetoelastic effects”</p>	<p>Loreto Misuraca (ILL, France) “Protomembranes at the origin of life”</p>	<p>Egor Vezhlev (JCNS & MLZ) “Neutron Depth profiling at a focused neutron beam: a method of choice to study Li-ion transport in solid state batteries”</p>
<p>18:45 – 19:00</p>	<p>Victor Bodnarchuk (JINR, Russia) “Background suppression in neutron scattering experiments at the pulsed IBR-2 reactor by set of choppers”</p>	<p>Claire V. Colin (Institut Neel, CNRS, University Grenoble-Alpes, France) “Magnetic structure and magnetic excitations in the multiferroic pyroxene $\text{SrMnGe}_2\text{O}_6$”</p>	<p>Kevin Pounot (ILL, France) “Protein dynamics and diffusion followed during aggregates formation by time-resolved quasi-elastic neutron scattering”</p>	<p>Palmerina Gonzalez-Izquierdo (ILL, France) “Magneto-structural correlations, thermal evolution, ionic conductivity and catalytical activity for the pet glycolysis of the (trimim)[FeCl₄] halometallate compound”</p>

Thursday, July 4th

VII European Conference on Neutron Scattering 2019
Saint-Petersburg Hall, first floor
 Chair: **Jiri Kulda**

09:00 – 09:45	Plenary lecture: Anne Martel (ILL, France) “SANS and biology: peptides, proteins in solutions and complexes”			
09:45 – 10:30	Plenary lecture: Denis Kozlenko (JINR, Russia) “Neutron scattering under high pressure: towards half-Megabar pressure scale”			
	Neutron Instrumentation Saint-Petersburg Hall, first floor Chair: Vyacheslav Em	Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Jonathan White	Life Sciences Pavlovsk Hall, ground floor Chair: Jorg Pieper	Planetary Sciences and Extreme Conditions Kronstadt Hall, ground floor Chair: Denis Kozlenko
11:30 – 12:00	<u>Invited talk</u> Robert Bewley (ISIS, UK) “FARO: A new type of neutron spectrometer with Flux And Resolution Optimised”	<u>Invited talk</u> Evgeny Kravtsov (IPM, Russia) “Magnetism of rare-earth/transition metal multilayers”	<u>Invited talk</u> Andreas Stadler (JCNS (FZJ), Jülich, Germany) Structure and Dynamics of Intrinsically Disordered and Unfolded Proteins: Insights Gained by Neutron Scattering	<u>Invited talk</u> Fabienne Duc (LNCMI, France) Neutron Diffraction in High Magnetic Fields: Application to the heavy fermions systems $U(Ru_{1-x}Rh_x)_2Si_2$
12:00 – 12:30	<u>Invited talk</u> Gordon J. Kearley , (Uni.Coll. Dublin, Ireland) “Quasi elastic neutron scattering - could there be another way?”	Igor Golosovsky (NRC KI - PNPI, Russia) “Complex magnetic order in the $Nd(Tb)Fe_3(BO_3)_4$ multiferroic revealed by the single crystal neutron diffraction”	Martin Schmiele (University of Copenhagen, Denmark) “Nanostructured lipid carriers for fish oil - A small angle neutron scattering study”	Alexandre Ivanov (ILL, France) “High-pressure cells for inelastic neutron scattering studies of proton dynamics in materials”

		<p>Damaris Tartarotti Maimone (PSI, Switzerland) “Evidence for new mechanism of antiferromagnetic domain selection driven by spin-orbit coupling”</p>	<p>Robert W. Corkery (Royal Institute of Technology, Sweden, Australian National University, Australia) “Photosynthetic membranes in live cells and organelles studied using SANS”</p>	<p>Christian Scheffzük (Institute of Applied Geosciences KIT, Germany, JINR, Dubna, Russia) “Triaxial in situ deformation experiments with pore pressure on a sandstone sample using neutron time-of-flight diffraction at the EPSILON diffractometer”</p>
12:30 – 12:45	<p>Olaf Holderer (JCNS (FZJ), Germany) “The new high-resolution neutron spin echo spectrometer J-NSE “PHOENIX” at MLZ”</p>	<p>Mikael Twengstrum (Royal Institute of Technology, Sweden) “Zone center physics in magnetic diffuse neutron scattering”</p>	<p>Marija Dubackic (Lund University, Sweden) “Small angle neutron scattering study of protein-lipid co-assembly”</p>	<p>John Loveday (ESS, Sweden) “High-pressure neutron diffraction: state-of-the-art at the SNS and near future opportunities at the ESS”</p>
12:45 – 13:00	<p>Peter Falus (ILL, France) “WASP, the Widest Angle SPin echo spectrometer”</p>	<p>Yurii Kibalin (LLB, France) “Rietveld method for polarized neutron powder diffraction”</p>	<p>Emilie Mahieu (Institute of Structural Biology, France) “Observing a cellular protein unfolding and degradation machine at work: a time-resolved small-angle neutron scattering study”</p>	<p>Tatiana I. Ivankina (JINR, Russia) “To the problem of granite monuments desintegration: structural, texture, ultrasonic and permeability measurements”</p>
13:00 – 13:15	<p>Markus Strobl (PSI, Switzerland) “Mapping Small Angle Scattering with Image Resolution in Dark-Field Contrast Imaging”</p>	<p>Tobias Neuwirth (MLZ, TUM, Germany) "Embossing induced internal stress in electrical steel sheets”</p>	<p>Renata Unnep (Wigner Research Centre for Physics, Hungary) “Low-pH and desiccating induced reorganizations of thylakoid membranes - as revealed by small-angle neutron scattering”</p>	<p>Valery Shvetsov (JINR, Russia) “Determination of the planetary soil composition by means of neutron and gamma Detectors”</p>

13:15 – 13:30	Pavel Trtik (Paul Scherrer Institut, Switzerland) “Neutron Microtomography”	Thomas Saerbeck (ILL, France) “Using polarized neutron reflectometry to study the layer integrity of annealed MgO/CoFeB magnetic tunnel junctions with W diffusion barriers”	Francois Boue (INRA-UMR, France) “Monitoring food structure during digestion using small-angle scattering and imaging techniques”		
14:30– 15:00	Special session “Education and Training for Neutron Scattering” Kronstadt Hall, ground floor				
15:00 – 16:00	Exhibition (Ground floor lobby, center) Poster Session 3 (Ground floor lobby, left side) <ol style="list-style-type: none"> 1. <i>Magnetism, multiferroics, skyrmions, superconductivity</i> 2. <i>Solid State Chemistry</i> 3. <i>Planetary Sciences and Extreme Conditions</i> 4. <i>Functional Materials</i> 5. <i>Engineering Applications</i> 6. <i>Thin Films and Interfaces</i> 		Beatrice Grenier (ILL, Grenoble) “HERCULES schools: intensive training in neutrons and synchrotron radiation” Adél Len (BNC, Hungary) “20 Years of Hands-on Training on Neutron Techniques at the Budapest Neutron Centre” Linda Udby (Niels Bohr Institute, Denmark) “E-learning neutron scattering” Sergey Grigoriev (NRC KI - PNPI, Russia) “Master program on neutron scattering at Saint-Petersburg State University” Elena Abrosimova (JCNS, Germany) “German-Russian Roadmap: educational aspects”		

	Neutron Instrumentation Saint-Petersburg Hall, first floor Chair: Bob Cubitt	Magnetism and Superconductivity Gatchina Hall, ground floor Chair: Vladimir Dmitrienko	Life Sciences Pavlovsk Hall, ground floor Chair: Anne Martel	Fundamental Science Kronstadt Hall, ground floor Chair: Valery Nesvizhevsky
16:00 – 16:30	<u>Invited talk</u> Vyacheslav Em (NRC KI, Russia) “New instruments for materials engineering STRESS and DRAKON at reactor IR-8: performance and first results”	<u>Invited talk</u> Evgeny Altynbayev (NRC KI - PNPI, Russia) “Skyrmion lattice in Fe-doped MnGe compounds”	<u>Invited talk</u> Elizabeth Kelley (NIST, USA) “Insights into lipid membrane dynamics from neutron scattering”	<u>Invited talk</u> Anatolii Serebrov (NRC KI - PNPI, Russia) “Research program of fundamental interactions at PIK reactor”
16:30 – 16:45	Michael Heere (IAM-ESS, KIT, MLZ, TU Munchen, Germany) “New developments in the fast neutron powder diffraction instrument ErwiN at MLZ”	Victor Ukleev (LNS PSI, Switzerland) “Complementary study of magnetic frustration in Co ₇ Zn ₇ Mn ₆ chiral magnet by muons, neutrons and X-rays”	Dubackic Peters (University Grenoble Alpes LiPhy, ILL, France) “Pressure effects on the protein dynamical transition”	<u>Invited talk</u> Bastian Märkisch (TUM, Germany) “No Dark Side to Neutron Decay”
16:45 – 17:00	Xavier Fabreges (LLB, France) “MAGiC: a polarized diffractometer at ESS”	Marta Crisanti (ILL, France) “The power of small angle neutron scattering for the study of skyrmionic systems”	Ralf Biehl (JCNS FZJ, Germany) “Protein Domain Motions as seen by Neutron Spin Echo Spectroscopy”	

<p>17:00 – 17:15</p>	<p>Evgeny Lukin (JINR, Russia) “DN-6 diffractometer for studies of microsamples at ultrahigh pressures”</p>	<p>Denis Mettus (TU Munchen, Germany) “Kinetic small-angle neutron scattering of skyrmion lattice order in chiral magnets”</p>	<p>Sebastian Jaksch (JCNS & HMLZ, Germany) “In-plane dynamics of phospholipid membranes”</p>	<p>Egor Lychagin (JINR, Russia) “A powerful UCN source at an external beam of thermal neutrons at the PIK reactor”</p>
<p>17:15 – 17:30</p>	<p>Thomas Keller (Max Planck Institute for Solid State Research, Germany) “Neutron Larmor Diffraction on samples in magnetic field”</p>	<p>Tobias Weber, Paul Steffens (ILL, France) “Polarization analysis of the skyrmion dynamics in MnSi”</p>	<p>Stephan Longeville (LLB, France) “Compression of flexible chain due to macromolecular and its biological implications”</p>	<p>Vladimir Hutanu (RWTH Aachen University, JCNS & MLZ, Germany) “Measuring T-odd effects in the neutron induced fission of ²³⁵U using thermal and hot polarized neutrons on the beamline POLI at MLZ”</p>
<p>17:30 – 17:45</p>	<p>Ravil Sadykov (INR RAS, Russia) “Nonmagnetic high pressure piston-cylinder type clamp cells for neutron scattering”</p>	<p>Jonathan White (PSI, Switzerland) “Multiple-q noncollinear magnetism in the itinerant hexagonal magnet Y₃Co₈Sn₄”</p>	<p>Maria Grazia Ortore (DLES - Università Politecnica delle Marche, Italia) “Amyloid OI-peptides interaction with model membranes: when dynamics matters”</p>	<p>Rene Sedmik (TU Wien / Atominstitut, Austria) “Ramsey Gravity Resonance Spectroscopy with Ultracold Neutrons”</p>

<p>17:45 – 18:00</p>	<p>Andrew Sazonov (DMSC ESS, Denmark) “Visualization and Processing of Single-Crystal Diffraction Data Measured with a Point Detector using Davinci Software”</p>	<p>Isabelle Mirebeau (LLB, University Paris-Saclay, CEA, France) “Spin textures induced by quenched disorder in a reentrant spin glass: vortices versus frustrated skyrmions”</p>	<p>Livia Balacescu (IA, RWTH Aachen, Germany) “Nanosecond dynamics of biopolymers: a comparative neutron spin echo study on folding intermediates of apo-myoglobin”</p>	<p>German Kulin (JINR, Russia) “On observation of the Goos-Hanchen shift of a neutron beam”</p>
<p>18:00 – 18:30</p>	<p><u>Invited talk</u> Vladimir Luzin (ANSTO, Australia) “Neutron Diffraction Stress Analysis Down Under: 10 Year Experience in Industrial and Scientific Applications”</p>	<p><u>Invited talk</u> Nicolas Martin (LLB, France) “Liquid crystalline structures and elasticity in a cubic chiral helimagnet”</p>	<p>Antonio Benedetto (School of Physics, University College Dublin, Ireland) “High-resolution neutron scattering data reveal the decoupling of proteins and water at the dynamical transition”</p>	<p><u>Invited talk</u> Alexander Frank (JINR, Russia) “Neutron wave in matter - open questions”</p>

Friday, July 5th

VII European Conference on Neutron Scattering 2019

Saint-Petersburg Hall, first floor

Chair: **Katia Pappas**

09:00 – 09:45	Plenary lecture: Valentin Gordeliy (Université Grenoble Alpes, France) “Structure and mechanisms of membrane proteins and their importance for medicine”			
09:45 – 10:30	Plenary lecture: Ralph Gilles (MLZ – TUM, Germany) “How neutrons support technical developments in the field of gas turbines and batteries”			
	<p>Neutron Instrumentation Saint-Petersburg Hall, first floor Chair: Winfried Petry</p>	<p>Cultural Heritage and Archaeometry Gatchina Hall, ground floor Chair: Ina Reiche</p>	<p>Life Sciences Pavlovsk Hall, ground floor Chair: Elizabeth Kelley</p>	<p>Fundamental Science Kronstadt Hall, ground floor Chair: Egor Lychagin</p>
11:30 – 12:00	<p><u>Invited talk</u> Robert Cubitt (ILL, France) “Neutron Optics And Instrumentation”</p>	<p><u>Invited talk</u> Francesco Grazi (IFAC, Italy) “Ancient arms and armour production technologies revealed through neutron imaging and neutron diffraction”</p>	<p><u>Invited talk</u> Michail Kiselev (JINR, Russia) “Neutron scattering application for the characterization of the lipid structure of mammalian stratum corneum and drug delivery systems based on the soybean phospholipids”</p>	<p><u>Invited talk</u> Victor Ezhov (NRC KI - PNPI, Russia) “Neutron lifetime measuring experiments with UCN magnetic storage”</p>
12:00 – 12:15	<p>Jakob Voldum Ahlburg (Aarhus University, Denmark) “Fast heating - Sample Environments for High Brightness Sources”</p>	<p><u>Invited talk</u> Ekaterina Yatsishina (NRC KI, Russia) “Study of the Gilding Technology of the “Idol” from the 10th Century Mound</p>	<p>Ekaterina Iashina (NRC KI – PNPI, Russia) “Logarithmic fractal structure of the large- scale chromatin organization in the interphase HeLa nuclei”</p>	<p>Vladimir Voronin (NRC KI - PNPI, Russia) “Crystal-diffraction gain of the Stern-Gerlach effect”</p>

<p>12:15 – 12:30</p>	<p>Marek Bartkowiak (Paul Scherrer Institut, Switzerland) “Non-magnetic goniometer for dilution refrigerators”</p>	<p>“Chernaya Mogila” (“Black Grave”)</p>	<p>Sophie Combet (LLB, Universite Paris-Saclay, France) “Membrane interaction of off- pathway prion oligomers and lipid-induced on-pathway intermediates during prion conversion: a clue for neurotoxicity”</p>	<p>Valery Nesvizhevsky (ILL, France) “A new approach to search for free neutron-antineutron oscillations based on coherent neutron and antineutron reflections”</p>
<p>12:30 – 12:45</p>	<p>Jonathan Taylor (ESS ERIC, Sweden) “Scientific software developments at the European Spallation Source”</p>	<p>Antonella Scherillo (STFC – ISIS, UK) “Neutron diffraction for archaeometry: results obtained on ancient Sardinian bronzes using the Italian Neutron Experimental Station INES”</p>	<p>Nicolas Coquelle (ILL, France) “Structural characterization of rsEGFP2 on-state intermediates using neutron diffraction and time-resolved serial femtosecond crystallography experiments reveal its fluorescent state”</p>	<p>Dmitrii Shapiro (NRC KI - PNPI, Russia) “Search for new internucleon short-range interaction in neutron scattering”</p>
<p>12:45 – 13:00</p>	<p>Tatsuro Oda (Kyoto University, Japan) “Neutron Resonance Spin-Echo Spectrometers at BL06 VIN ROSE at J-PARC MLF”</p>	<p>Anna Fedrigo (ISIS, STFC, UK) “Imaging investigation of Chinese bimetallic sword fragment from 2nd-1st century BCE”</p>	<p>Dmitry Lebedev (NRC KI - PNPI, Russia) “Insights into genetic information storage, repair and translation provided by neutron scattering, synchrotron radiation and molecular dynamics”</p>	<p>Maxim Zakharov (JINR, Russia) “Interaction of ultracold neutrons with a neutron interference filter oscillating in space”</p>

<p>13:00 – 13:15</p>	<p>Livia Balacescu (JCNS (FZJ), Germany) “Characterization of Soft-Matter and Biological Systems by Simultaneous Small-Angle Neutron Scattering and in situ Light Scattering and Absorption Complementary Techniques (DLS, UV-Vis, FTIR) at the SANS Diffractometer KWS-2 of JCNS”</p>	<p>Laura Arcidiacono (Universita degli studi di Roma Tor Vergata, Italia) “Neutron tomography reveals lead cores in Late Bronze Age palstaves at ISIS Pulsed Neutron and Muon Source”</p>	<p>Lindsay McGregor (ILL, France) “Identifying the correct protonation states of reactive intermediates in urate oxidase catalysis”</p>	<p>Stephan Sponar (Atominstytut, TU-Wien, Austria) “Weak Measurements and Which-Way Measurements studied in Neutron Optics”</p>
<p>13:15 – 13:30</p>	<p>Andre Heinemann (GEMS&MLZ, Germany) “New Features and upgrades of the Small-Angle Neutron Scattering Instrument SANS-1 at MLZ”</p>	<p>Claudia Mondelli (ILL, France) “The effects of manufacturing processes on historical ceramic morphology studied by Small Angle Neutron Scattering”</p>	<p>Jorg Pieper (University of Tartu, Estonia) “Neutron Scattering Experiments of Photoactive Proteins under Illumination”</p>	<p>Sergey Kozhevnikov (JINR, Russia) “On ray and wave optics description in neutron planar waveguides”</p>