

VII EUROPEAN CONFERENCE ON NEUTRON SCATTERING

June 30 – July 5, 2019

Sunday, June 30 th	
13:00 – 15:00	Registration, Foyer of the Manege Central Exhibition Hall, St. Isaac's Square, 1
Opening Ceremony, Saint-Petersburg Hall, second floor of the Manege Central Exhibition Hall	
15:00 – 15:30	Official greetings
15:30 – 16:15	Plenary lecture: Mikchail V. Kovalchuk (National Research Center «Kurchatov Institute», Russia) “Convergent science and nature-like technologies: global challenges”
16:15 – 17:00	Plenary lecture: Viktor L. Aksenov (National Research Center «Kurchatov Institute», Russia) “Reactor PIK. Present status and trends”
17:00– 17:45	Plenary lecture: Sebastian Schmidt (Forschungszentrum Jülich, Germany) “European neutron landscape”
17:45– 18:15	Plenary lecture: Helmut Schober (Institute Laue Langevin, France) “League of advanced European Neutron Sources (LENS)”
18:30 – 21:00	Welcome Party, Presidential Library, Senatskaya square, 3

Monday, July 1 st	
08:00 – 18:00	Registration, Foyer of the Manege Central Exhibition Hall, St. Isaac's Square, 1
VII European Conference on Neutron Scattering 2019 Saint-Petersburg Hall, second floor	
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) “Neutron an X-ray imaging for cultural heritage research”

10:30 – 11:30	Coffee (First floor lobby, right side)				
	Exhibition (First floor lobby, center)				
	Neutron sources and facilities Saint-Petersburg Hall, second floor	Magnetism and Superconductivity Gatchina Hall, first floor	Functional Materials Peterhof Hall, first floor	Engineering Applications Pavlovsk Hall, first floor	Microsymposium “Scientific Methods for Cultural Heritage Tsarskoye Selo Hall, second floor ”
11:30 – 12:00	<u>Invited talk</u> Valery Shvetsov (JINR, Russia) “IBR-2 Instrumentation Development”	<u>Invited talk</u> Shibabrata Nandi (JCNS (FZJ), Germany) “Superconductivity and magnetism in Fe pnictides”	<u>Invited talk</u> Anatoly Balagurov (JINR, Russia) “Cluster-like structure of Fe-based alloys with enhanced magnetostriction”	<u>Invited talk</u> Gizo Bokuchava (JINR, Russia) “Residual stress measurements using correlation RTOF (Fourier) diffractometry at long-pulse neutron source”	
12:00 – 12:30	<u>Invited talk</u> Robert McGreevy , (ISIS, UK) “TBA”	<u>Invited talk</u> Alistair Cameron (TU Dresden, Germany) “Rotation of the magnetic vortex lattice in the noncentrosymmetric superconductor Ru ₇ B ₃ ”	<u>Invited talk</u> Francoise Damay (LLB, France) “Fe _{3-x} Mn _x BO ₅ : an extraordinarily rich magnetic phase diagram”	Oral presentation Stefano Deledda (Institute for Energy Technology, Norway) “Neutron Imaging study of Strontium Chloride Ammine system for Heat Storage” Engineering Applications Pavlovsk Hall, first floor Oral presentation Christopher Garvey (Malma University, Sweden) “1D Imaging of Flocculating and Sedimenting Particles”	
12:30 – 12:45	Oral presentation Stefan Mattauch (JCNS (FZJ), Germany)	Oral presentation Alexandre Ivanov (ILL, France)	Oral presentation Katarzyna Rećko (University of Białystok,	Oral presentation Ranggi Sahnura Ramadhan (Coventry	

	“Latest developments of neutron scattering instruments of the JCNS at MLZ”	“Anisotropy of magnetic excitations in iron-based superconductors”	Poland) “Magnetism of surface modified and gallium doped magnetite particles”	University, UK) “High-resolution residual strain mapping by energy-dispersive neutron imaging”	
12:45 – 13:00	Oral presentation Winfried Petry (MLZ - TUM, Germany) “High-density uranium fuel for high performance research reactors”	Oral presentation 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”	Oral presentation Mogens Christensen (Aarhus University, Denmark) “Structure and Texture of Nanosized Magnetic Hexaferrites”	Oral presentation 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	Oral presentation Tianfu Li (China Institute of Atomic Energy, China) “Neutron Facilities at China Advanced Research Reactor”	Oral presentation Mehmet Ramazanoglu (Istanbul Technical University, Turkey, Brockhouse Institute for Materials Research, Canada) “Magnetic Excitations in The Cubic Superconductor CrRu”	Oral presentation Jose Maria Porro (BCM, Spain) “Powder and single crystal neutron diffraction in ferromagnetic shape memory alloys: structure vs magnetism”	Oral presentation 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	Oral presentation Jamie Schulz (Australian Centre for Neutron Scattering, Australian Nuclear Science & Technology Organisation, Australia) “Current status of OPAL, the Australian Research Reactor”	Oral presentation 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”	Oral presentation Uliana Koneva (Immanuel Kant Baltic Federal University, Russia) “GISAS studies of the shape, size and layout of silicon nanowhiskers”	Oral presentation Joana Rebelo Kornmeier (MLZ - TUM, Germany) “Non-destructive neutron surface and high spatial resolved residual stress analysis”	

13:30 – 15:00	Lunch (Stroganoff Steak House, Konnogvardeyskiy Bul'var, 4)	
	Exhibition (First floor lobby, center)	
15:00 – 15.30	<p>Special 25th anniversary ENSA session (Saint-Petersburg Hall, second floor)</p> <p>ENSA Session (Saint-Petersburg Hall, second floor)</p> <p>ENSA Session (Saint-Petersburg Hall, second floor)</p> <p>ENSA Session (Saint-Petersburg Hall, second floor)</p> <p>ENSA Session (Saint-Petersburg Hall, second floor)</p> <p>ENSA Session (Saint-Petersburg Hall, second floor)</p>	
15:30 – 16.00		
16:00 – 16.20		
16:20 – 16.40		
16:40 – 17.00		
17:00 – 17.20		
17:20 – 17.40		
17:40 – 18.00		
18:00 – 18.20		
18:20 – 18.40		
19:00	Social Program	

Tuesday, July 2nd		
VII European Conference on Neutron Scattering 2019 (Saint-Petersburg Hall, second floor)		
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“	
10:30 –	Coffee (First floor lobby, right side)	

11:30	Exhibition (First floor lobby, center)				
	Neutron Instrumentation Saint-Petersburg Hall, second floor	Magnetism and Superconductivity Gatchina Hall, first floor	Soft Condensed Matter Peterhof Hall, first floor	Thin Films and Interfaces Pavlovsk Hall, first floor	Microsymposium “Scientific Methods for Cultural Heritage” Tsarskoye Selo Hall, second floor
11:30 – 12:00	<u>Invited talk</u> Sergey Kichanov (JINR, Dubna, Russia) “Neutron imaging at long-pulse sources: opportunities, results and perspectives”	<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> Anne-Caroline Génix (Université Montpellier, France) “Structure of adsorbed layers and of chains in polymer nanocomposites”	<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”	
12:00 – 12:30	<u>Invited talk</u> Francesco Piscitelli (ESS, Sweden) “Detector developments in BrightnESS: beyond the limits of the current detector technologies for neutron scattering science”	Oral presentation Petronella Pascale Deen (ESS, Sweden) “Towards and understanding of the magnetocaloric effect”	Oral presentation Jaques Jestin (LLB, France) “SANS/USANS tunable multiscale nanoparticle ordering by polymer crystallization”	<u>Invited talk</u> Yuri Nikitenko (JINR, Dubna, Russia) “Reflectometry with registration of secondary radiation at total neutron reflection”	
		Oral presentation Stephane Raymond (Université Grenoble Alpes, France) “Spin Fluctuations Drive the Inverse Magnetocaloric Effect in Mn_5Si_3 ”	Oral presentation Peter J. Holden (Australian Nuclear Science & Technology Organisation, Australia) “New Horizons for Molecular Deuteration: Diversity in Molecules and Applications”		
12:30 – 12:45	Oral presentation Laurence Noirez (LLB, France)	Oral presentation Henrik Jacobsen (Oxford University, UK)	Oral presentation Andrea Orecchini (University degli Studi di	Oral presentation Aljosa Hafner (Universite Libre de Bruxelles,	

	“Using Light to see Neutrons: a new 2D detector with high resolution”	“Strong quantum fluctuations co-existing with magnetic order in a pyrochlore iridate”	Perugia, Italy) “Low-temperature Dynamical Transition in Concentrated Microgels”	Belgium, ILL, France) “Instabilities of buried polymer layers studied by specular and off-specular neutron reflectometry”	
12:45 – 13:00	Oral presentation Julien Marchal (ILL, France) “Development of a large cylindrical Trench-MWPC detector for XTremeD neutron diffraction instrument” Oral presentation	Oral presentation Mechthild Enderle (ILL, France) “Anisotropy in frustrated J1-J2-chains”	Oral presentation 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”	Oral presentation Lucas Kreuzer (TUM - MLZ, Germany) “Phase transition kinetics in a doubly thermo-responsive block copolymer thin film followed with in-situ neutron reflectometry”	
13:00 – 13:15	Oral presentation Sebastian Jaksch (JCNS (FZJ), Germany) “SoNDe high-flux neutron detector”	Oral presentation Markos Skoulatos (MLZ and Physics Department, TUM, Germany) “Putative spin-nematic phase in BaCdVO(PO ₄) ₂ ”	Oral presentation Kell Mortensen (NBI, University of Copenhagen, Denmark) “SANS studies of star-polymers and star-polymer gels exposed to stretch”	Oral presentation Alessandra Luchini (Niels Bohr Institute, University of Copenhagen, Denmark) “The role of phosphatidylserine lipids in tuning membrane protein domain location in supported membranes”	
13:15 – 13:30	Oral presentation Bruno Guerard (ILL, France) “New prospects in ³ He detector techniques”	Oral presentation Arsen Goukassov (LLB, France) “Local susceptibility of frustrated pyrochlores. Polarized Neutrons and Point Charge model.”	Oral presentation Daria Noferini (JCNS at MLZ) “Disentangling polymer network and hydration water dynamics in pHEMA physical and	Oral presentation Thomas Saerbeck (ILL, France) “Artificially Designed Magnetic Domain Patterns Investigated by Neutron Scattering”	

			chemical hydrogels”		
13:30 – 15:00	Lunch (Stroganoff Steak House, Konnogvardeyskiy Bul'var, 4)				
	Exhibition (First floor lobby, center)				
15:00 – 16:00	Coffee (First floor lobby, right side)				
	Exhibition (First floor lobby, center)				
	Poster Session 1 (First floor lobby, left side) <i>Neutron Instrumentation, Optics, Sample Environment, Detectors and Software</i> <i>Neutron Sources and Facilities</i> <i>Fundamental Science</i>				
	Neutron Instrumentation Saint-Petersburg Hall , second floor	Magnetism and Superconductivity Gatchina Hall, first floor	Functional Material Peterhof Hall, first floor	Disordered Systems and Liquids Pavlovsk Hall, first floor	Microsymposium “Scientific Methods for Cultural Heritage” Tsarskoye Selo Hall, second floor
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> Beatrice Grenier (ILL, France) “Tomonaga-Luttinger liquid spin dynamics in the quasi-one dimensional Ising-like antiferromagnet BaCo ₂ V ₂ O ₈ ”	<u>Invited talk</u> Karin Schmalzl (JCNS (FZJ),Germany) “Insights into the magnetocaloric effect in MnFe ₄ Si ₃ gained with inelastic neutron scattering”	<u>Invited talk</u> Aleksander Matic (Chalmers University of Technology, Sweden) “Structured liquids”	
16:30 – 16:45	Oral presentation Charles Dewhurst (ILL, France) “ILL Modernisation Programme: Endurance. The ambitious renewal of the H15 cold neutron guide and instrumentation” Oral presentation	Oral presentation Irina Safiulina (ILL, France) “Magnetic excitations of a new potential spin liquid”	Oral presentation Alexandra Franz (Helmholtz-Zentrum, Germany) “FAPbBr ₃ - about the influence of deuteration: A temperature dependent neutron diffraction study”	Oral presentation 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	Oral presentation Nikolay Pleshanov (NRC KI - PNPI, Russia) “Mirror flippers: experiments and possible applications”	Oral presentation Artem Korshunov (NRC KI - PNPI, Russia) “Short-range and long- range ordering on the quasi-2D honeycomb layered Na ₂ Ni ₂ TeO ₆ ”	Oral presentation Fanni Juranyi (Paul Scherrer Institut, Switzerland) “Water captured in the polysaccharide network of chia mucilage”	Oral presentation Sergey Grigoriev (NRC KI - PNPI, Russia) “Classification of fractal objects by SANS: case of the logarithmic fractal”	
17:00 – 17:15	Felix J Villacorta (Consortio ESS-Bilbao, Spain) “Neutron guide design optimization of MIRACLES, the time-of- flight / backscattering spectrometer at the European Spallation Source”	Oral presentation Alexander Tsirlin (University of Augsburg, Germany) “Breaking and re- arrangement of valence bonds in the triangular spin liquid YbMgGaO ₄ ”	Oral presentation Sandrine Lyonnard (SyMMES, CEA-CNRS- UGA, France) “Ion dynamics in nanostructured ionic liquid crystals by QENS”	Oral presentation Zhanar Zhakiyeva (ILL, France) “Studying the structure and dynamics of water within the main binding phase of cement using neutron scattering”	
17:15 – 17:30	Oral presentation Pierre Courtois (ILL, France) “Recent achievements in Neutron Optics at the ILL”	Oral presentation Marc Seifert (MLZ, TUM, Germany) “Neutron Depolarization Measurements of Quantum Critical Ferromagnets”	Oral presentation Monica-Elisabeta Lacatusu (Technical University of Denmark, Denmark) “Neutron imaging study of degradation in commercial Li-ion batteries”	Oral presentation Anne Stunault (ILL, France) “D3 at the ILL: structural studies of hydrogenous liquid and amorphous systems using polarised neutrons”	
17:30 – 17:45	Oral presentation Alexei Vorobiev (Uppsala University, Sweden) “Compact neutron supermirror transmission polarizer for SANS”	Oral presentation Heiko Trepka (MPI for Solid State Research, Germany) “Critical scattering in classical and quantum critical systems”	Oral presentation P. Klaus Pranzas (Helmholtz-Zentrum Geesthacht, Germany) “Characterisation of hydrogen storage materials with neutron imaging and scattering techniques”	Oral presentation 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”	
17:45 – 18:00	Oral presentation Vladislav Syromyatnikov (NRC KI – PNPI, Russia) “New neutron supermirror polarizer”	Oral presentation Stanislav Nikitin (Max Planck Institute for Chemical Physics of Solids, Germany) “Pressure-induced evolution of magnetic excitations in CeCoSi”	Oral presentation 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”	Oral presentation SoHyun Park (Ludwig-Maximilians-Universität München, Germany) “Proton dynamic behaviour in hydrogen bond networks in oxyhydroxides”	
18:00 – 18:15	Oral presentation Thierry Bigault (ILL, France) “Mass production of neutron polarizing supermirrors for the WASP instrument at the ILL”	Invited talk Lucile Mangin-Thro (ILL, France) “High-Tc superconductors and frustrated magnets on the D7 instrument at the ILL”	Invited talk Michail Avdeev (JINR, Russia) “Nanoscale structure of electrochemical interfaces for lithium power sources by neutron scattering”	Oral presentation Igor Gapon (JINR, Russia) “Impact of the external magnetic and electric fields on behavior of ferrofluids at interfaces: neutron reflectometry data”	
18:15 – 18:30	Valery Nesvizhevsky (ILL, France) “Fluorinated nanodiamonds as unique neutron reflector”			Oral presentation Artur Glavic (Aarhus University, Denmark) “Structure and Slow Dynamics in Spontaneous Methyl-Formate”	
19:00	Social Program				

Wednesday, July 3rd

**VII European Conference on Neutron Scattering 2019
Saint-Petersburg Hall, second floor**

09:00 – 09:45	Plenary lecture: Katia Pappas (TU Delft, Netherland) “Novel spiral and skyrmionic states“
------------------	--

09:45 – 10:30	Plenary lecture: R. A. Campbell (ILL, France) “New application of neutron reflectometry to resolve kinetic and dynamic interfacial compositions in soft matter and biology “				
10:30 – 11:30	Coffee (First floor lobby, right side)				
	Exhibition (First floor lobby, center)				
	Neutron Instrumentation Saint-Petersburg Hall, second floor	Magnetism and Superconductivity Gatchina Hall, first floor	Soft Condensed Matter Peterhof Hall, first floor	Neutron sources and facilities Pavlovsk Hall, first floor	Microsymposium “Synchrotron and neutron research and infrastructure” Tsarskoye Selo Hall, second floor
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	Oral presentation Goran Nilsen (ISIS Neutron and Muon Facility, UK) “Uniaxial polarization analysis on the LET time- of-flight spectrometer: first results”	Oral presentation Denis Salamatin (JINR, VIHPP, Russia) “Study of high-pressure cubic phase of RGe _{2.85} (R = Tb, Dy) by neutron diffraction”	Oral presentation Andrew J. Jackson (ESS, Sweden) “Self-assembly in deep eutectic solvents: from surfactant aggregation to protein folding”	Oral presentation Helen Walker (ISIS, UK) “Recent instrument developments in the Excitations Group at ISIS”	
12:15– 12:30	Oral presentation 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	Oral presentation Stanislav Podchezertsev (ILL, France) “Magnetic ordering features of the Co _{5- x} Zn _x TeO ₈ spinel-type series”	Oral presentation Maximilian Wolff (Uppsala University, Sweden) “Solid-liquid interfaces: New insights and future opportunities”	Oral presentation Luca Zanini (ESS ERIC, Sweden) “Neutronic Design of the Bunker Shielding for the European Spallation Source”	

	source”				
12:30 – 12:45	Oral presentation Avishek Maity (Institute of physical chemistry, University of Goettingen, Germany) “Novel type polarization analysis using multi-analyzer setup @ PUMA, FRM II”	Oral presentation Henry Fischer (ILL, France) “Magnetic frustration in SrLn ₂ O ₄ compounds studied by magnetic PDF-analysis”	Oral presentation Nico Carl (ILL, France) “Controlling self-assembly with light”	Oral presentation Konstantin Pavlov (NRC KI - PNPI) “Simulations of neutron scattering instruments at a compact source”	
12:45 – 13:00	Oral presentation Takuya Okudaira (J-PARC Japan Atomic Energy Agency, Japan) “Polarized pulsed neutrons using a ³ He spin filter with an in-site SEOP method” Oral presentation	Oral presentation Laura Chaix (University Grenoble Alpes, CNRS, Institut Neel, France) Time and space magnetic and chiral correlations in the paramagnetic state of the multi-chiral langasite compound	Oral presentation Michael Gradzielski (Institute of Chemistry, TU Berlin, Germany) “Formation and Properties of Lamellae in Multilamellar Vesicles (MLV) Composed of Polyelectrolyte/Surfactant Complexes (PESCs)”	Oral presentation Jorg Voigt (JCNS, FZJ GmbH, Germany) “Compact Spectrometers for Compact Neutron Sources”	
13:00 – 13:15	Oral presentation Sergey Klimko (LLB, France) “Development and first test on large angle RF-flipper”	Oral presentation Manila Songvilay (University of Edinburgh, SPA, UK) “Anharmonic magnon excitations in non-collinear and charge-ordered RbFe ₂ +Fe ₃ +F ₆ ”	Oral presentation Vyacheslav Molchanov (MSU, Russia) “Self-assembled soft network of hybrid chains”	<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	Oral presentation Kirill Zhernenkov (JCNS, FZJ, MLZ, Germany) ARIA - The high-intensity polarized neutron	Oral presentation Ketty Beauvois (CEA, INAC/MEM-MDN, France) “Emergence of a dimer physics in the Cairo	Oral presentation Ruslan Smyslov (NRC KI – PNPI, Russia) “Nanocomposites based on Kamagataeibacter xylinus cellulose: Neutron studies”		

	reflectometer of JCNS	frustrated pentagonal magnet $\text{Bi}_2\text{Fe}_4\text{O}_9$			
13:30 – 15:00	Lunch (Stroganoff Steak House, Konnogvardeyskiy Bul'var, 4)				
	Exhibition (First floor lobby, center)				
15:00 – 16:00	Coffee (First floor lobby, right side)				
	Exhibition (First floor lobby, center)				
	Poster Session 2 (First floor lobby, left side)				
	<i>Soft Condensed Matter</i>				
	<i>Disordered systems & Liquids</i>				
	<i>Life Sciences</i>				
	<i>Cultural Heritage and Archaeometry</i>				
	Neutron Instrumentation Saint-Petersburg Hall, second floor	Magnetism and Superconductivity Gatchina Hall, first floor	Soft Condensed Matter Peterhof Hall, first floor	Solid State Chemistry Pavlovsk Hall, first floor	Microsymposium “Synchrotron and neutron research and infrastructure” Tsarskoye Selo Hall, second floor
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 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	Oral presentation 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”	<u>Invited talk</u> Olivier Sandre (University of Bordeaux, France) “TBA”	<u>Invited talk</u> Anatoliy Senyshyn (MLZ, Germany) “Lithium diffusion pathways in modern solid state Li conductors”	

	MLZ”				
16:45 – 17:00	Oral presentation Stephane Rols (ILL, France) “PANTHER: the new thermal time of flight spectrometer at the ILL”	Oral presentation 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”			
17:00 – 17:15	Oral presentation Bernhard Frick (ILL, France) “IN16B - a most versatile high flux neutron backscattering spectrometer”	Oral presentation Niels Bech Christensen (TUD, Denmark) “Magnetic and magnetoelectric phases of LiNiPO_4 up to 55T”	Oral presentation Tom Arnold (University of Birmingham, UK) “Adsorption and interactions of polymer stabilised lipid nanodiscs with air-liquid and solid-liquid interfaces”	Oral presentation Catherine Kennedy (University of Sydney, Australia) “Magneto-Structural Relationships in 4d and 5d Oxides”	
17:15 – 17:30	Oral presentation Jakob Lass (University of Copenhagen, Denmark) “CAMEA - A novel neutron spectrometer for extreme environment investigations”	Oral presentation J. Alberto Rodrigues Velamazán (ILL, France) “Effect of chemical substitution on the magneto-electric coupling of the $(\text{ND}_4)_2[\text{FeCl}_5(\text{D}_2\text{O})]$ hybrid multiferroic”	Oral presentation Hideki Seto (CROSS Neutron Science and Technology Center, Japan) “Dynamical behaviour of hydration water between lipid bilayers”	Oral presentation Holger Kohlmann (Leipzig University, Germany) “In situ investigation of hydrogenation reactions by neutron powder diffraction”	
17:30 – 17:45	Oral presentation Matteo Zanetti (CNR, Italia, ISIS Facility, UK) “Crystal Analysers for Indirect-Geometry Broadband Neutron Spectrometers: Adding Reality to Idealised Design”	Oral presentation Navid Qureshi (ILL, France) “Proof of the elusive high-temperature incommensurate phase in CuO by spherical neutron polarimetry”	Oral presentation Wim G. Bouwman (Faculty of Applied Sciences, Delft University of Technology, Netherlands) “Rational design of food processing methods with aid of neutron scattering”	Oral presentation Andrea Piovano (ILL, France) “Understanding the microscopic origin of oxygen diffusion in ion conductors with complex structure”	
17:45 – 18:00	Oral presentation Marcus Appel (ILL,	Oral presentation Alexei Belik (National	Oral presentation Eleonore Mason	Oral presentation Felix Fernandez-Alonso	

	France) “The BATS option for inverted TOF-Backscattering on IN16B: Design, performance and on going upgrades with variable focusing optics”	Institute for Materials Science, Japan) “Unusual Spin Structures in Quadruple and Simple Exotic Perovskites”	(University of Bath, UK) “Localisation of Membrane Components in Lipid Cubic Phases”	(ISIS, University College London, UK) “Recent Advances in Molecular Spectroscopy at the ISIS Pulsed Neutron & Muon Source”	
18:00 – 18:15	Jeroen Plomp (Delft University of Technology, Netherlands) “LARMOR a TOF instrument with many modes”	Oral presentation Petr Cermak (Charles University, Czech Republic) “Neutrons as a key method for accessing magnetoelastic effects“	Oral presentation Loreto Misuraca (ILL, France) “Protomembranes at the origin of life”	Oral presentation 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”	
18:15 – 18:30	Oral presentation Victor Bodnarchuk (JINR, Russia) “Background suppression in neutron scattering experiments at the pulsed IBR-2 reactor by set of choppers”	Oral presentation Claire V. Colin (Institut Neel, CNRS, University Grenoble-Alpes, France) “Magnetic structure and magnetic excitations in the multiferroic pyroxene SrMnGe ₂ O ₆ ”	Oral presentation Kevin Pounot (ILL, France) “Protein dynamics and diffusion followed during aggregates formation by time-resolved quasi-elastic neutron scattering”	Oral presentation Palmerina Gonzalez-Izquierdo (ILL, France) “Magneto-structural correlations, thermal evolution, ionic conductivity and catalytical activity for the pet glycolysis of the (trimim)[FeCl ₄] halometallate compound”	
19:00	Social Program				

Thursday, July 4th	
VII European Conference on Neutron Scattering 2019 Saint-Petersburg Hall, second floor	
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”

10:30 – 11:30	Coffee (First floor lobby, right side)					
	Exhibition (First floor lobby, center)					
	Neutron Instrumentation Saint-Petersburg Hall, second floor	Magnetism and Superconductivity Gatchina Hall, first floor	Life Sciences Peterhof Hall, first floor	Planetary Sciences and Extreme Conditions Kronstadt Hall, ground floor	Microsymposium “Synchrotron and neutron research and infrastructure” Tsarskoye Selo Hall, second floor	Microsymposium “Nuclear Medicine” Pavlovsk Hall, first floor
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) “A Neutron Spin-Echo Concept for Elastic Scattering Spectroscopy (ESS) for Dynamics of Complex (Bio-) Systems”	Oral presentation Dmitrii Lvov (NRC KI – ITEP, NRNU MEPhI, Russia) “Theory of Multiple Small-Angle Neutron Scattering in Ferromagnets”	Oral presentation Martin Schmiele (University of Copenhagen, Denmark) “Nanostructured lipid carriers for fish oil - A small angle neutron scattering study”	Oral presentation Alexandre Ivanov (ILL, France) “High-pressure cells for inelastic neutron scattering studies of proton dynamics in materials”		
		Oral presentation Damaris Tartarotti Maimone (PSI, Switzerland) “Evidence for new	Oral presentation Robert W. Corkery (Royal Institute of Technology, Sweden, Australian National	Oral presentation Birgit I.R. Müller (Institute of Applied Geosciences KIT, Germany)		

		mechanism of antiferromagnetic domain selection driven by spin-orbit coupling”	University, Australia) “Photosynthetic membranes in live cells and organelles studied using SANS”	“Triaxial in situ deformation experiments with pore pressure on a sandstone sample using neutron time-of-flight diffraction at the EPSILON diffractometer”		
12:30 – 12:45	Oral presentation Olaf Holderer (JCNS (FZJ), Germany) “The new high-resolution neutron spin echo spectrometer J-NSE “PHOENIX” at MLZ”	Oral presentation Mikael Twengstrum (Royal Institute of Technology, Sweden) “Zone center physics in magnetic diffuse neutron scattering”	Oral presentation Marija Dubackic (Lund University, Sweden) “Small angle neutron scattering study of protein-lipid co-assembly”	Oral presentation Malcolm Guthrie (ESS, Sweden) “High-pressure neutron diffraction: state-of-the-art at the SNS and near future opportunities at the ESS”		
12:45 – 13:00	Oral presentation Peter Falus (ILL, France) “WASP, the Widest Angle SPin echo spectrometer” Oral presentation	Oral presentation Yurii Kibalin (LLB, France) “Rietveld method for polarized neutron powder diffraction”	Oral presentation 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”	Oral presentation Tatiana I. Ivankina (JINR, Russia) “To the problem of granite monuments desintegration: structural, texture, ultrasonic and permeability measurements”		
13:00 – 13:15	Oral presentation Marcus Strobl (PSI, Switzerland) “Mapping Small Angle Scattering with	Oral presentation Tobias Neuwirth (MLZ, TUM, Germany) “Embossing induced	Oral presentation Renata Unnep (Wigner Research Centre for Physics, Hungary)	Oral presentation Alexey Malakhov (Space Research Institute (IKI), Russia) “Neutron sounding of		”

	Image Resolution in Dark-Field Contrast Imaging”	internal stress in electrical steel sheets”	“Low-pH and desiccating induced reorganizations of thylakoid membranes - as revealed by small-angle neutron scattering”	Mars from orbit with FREND instrument”		
13:15 – 13:30	Oral presentation Pavel Trtik (Paul Scherrer Institut, Switzerland) “Neutron Microtomography”	Oral presentation Thomas Saerbeck (ILL, France) “Using polarized neutron reflectometry to study the layer integrity of annealed MgO/CoFeB magnetic tunnel junctions with W diffusion barriers”	Oral presentation Francois Boue (INRA-UMR, France) “Monitoring food structure during digestion using small-angle scattering and imaging Techniques”	Oral presentation Valery Shvetsov (JINR, Russia) “Determination of the planetary soil composition by means of neutron and gamma Detectors”		
13:30 – 15:00	Lunch (Stroganoff Steak House, Konnogvardeyskiy Bul'var, 4)					
	Exhibition (First floor lobby, center)			14:00 – 16:00 Panel discussion “Education for Mega-science Facilities”		
	Coffee (First floor lobby, right side)					
	Exhibition (First floor lobby, center)					
15:00 – 16:00	Poster Session 3 (First floor lobby, left side) <i>Magnetism, multiferroics, skyrmions, superconductivity</i> <i>Solid State Chemistry</i> <i>Planetary Sciences and Extreme Conditions</i> <i>Functional Materials</i> <i>Engineering Applications</i> <i>Thin Films and Interfaces</i>					
	Neutron Instrumentation	Magnetism and Superconductivity	Life Sciences Peterhof Hall, first floor	Fundamental Science Kronstadt Hall,	Microsymposium “Synchrotron and	Microsymposium “Nuclear Medicine”

	Saint-Petersburg Hall, second floor	Gatchina Hall, first floor		first floor	neutron research and infrastructure” Tsarskoye Selo Hall, second floor	Pavlovsk Hall, first floor
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 Kelly (NIST, USA) “Insights into lipid membrane dynamics from neutron scattering”	<u>Invited talk</u> Bastian Märkisch (TUM, Germany) “TBA”		
16:30 – 16:45	Oral presentation Michael Heere (IAM-ESS, KIT, MLZ, TU Munchen, Germany) “New developments in the fast neutron powder diffraction instrument ErwiN at MLZ”	Oral presentation 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”	Oral presentation Judith Peters (University Grenoble Alpes LiPhy, ILL, France) “Pressure effects on the protein dynamical transition”	Oral presentation Egor Lychagin (JINR, Russia) “A powerful ucn source at an external beam of thermal neutrons at the PIK reactor”		
16:45 – 17:00	Oral presentation Xavier Fabreges (LLB, France) “MAGiC: a polarized diffractometer at ESS”	Oral presentation Marta Crisanti (ILL, France) “The power of small angle neutron scattering for the study of skyrmionic systems”	Oral presentation Ralf Biehl (JCNS FZJ, Germany) “Protein Domain Motions as seen by Neutron Spinecho Spectroscopy”	Oral presentation Vladimir Voronin (NRC KI - PNPI, Russia) “Crystal-diffraction gain of the Stern- Gerlach effect”		
17:00 – 17:15	Oral presentation Evgeny Lukin (JINR, Russia) “DN-6 diffractometer for studies of	Oral presentation Denis Mettus (TU Munchen, Germany) “Kinetic small-angle neutron scattering of	Oral presentation Sebastian Jaksch (JCNS & HMLZ, Germany) “In-plane dynamics of	Oral presentation Vladimir Hutanu (RWTH Aachen University, JCNS & MLZ, Germany)		

	microsamples at ultrahigh pressures”	skyrmion lattice order in chiral magnets”	phospholipid membranes”	“Measuring T-odd effects in the neutron induced fission of ^{235}U using thermal and hot polarized neutrons on the beamline POLI at MLZ”		
17:15 – 17:30	Oral presentation Thomas Keller (Max Planck Institute for Solid State Research, Germany) “Neutron Larmor Diffraction on samples in magnetic field”	Oral presentation Tobias Weber (ILL, France) “Polarization analysis of the skyrmion dynamics in MnSi”	Oral presentation Stephan Longeville (LLB, France) “Compression of flexible chain due to macromolecular and its biological implications”	Oral presentation Alexei Fomin (NRC KI - PNPI, Russia) “Precision research of neutron beta decay and Standard Model”		
17:30 – 17:45	Oral presentation Ravil Sadykov (INR RAS, Russia) “Nonmagnetic high pressure piston-cylinder type clamp cells for neutron scattering” Oral presentation Thierry Bigault (ILL, France) “Mass production of neutron polarizing supermirrors for the WASP instrument at the ILL”	Oral presentation Jonathan White (PSI, Switzerland) “Multiple-q noncollinear magnetism in the itinerant hexagonal magnet $\text{Y}_3\text{Co}_8\text{Sn}_4$ ”	Oral presentation Marialucia Longo (JCNS, Germany) “Real-time observation of Lysozyme crystallization kinetics: an in-situ diffraction and small angle neutron investigation”	Oral presentation Rene Sedmik (TU Wien / Atominstitut, Austria) “Ramsey Gravity Resonance Spectroscopy with Ultracold Neutrons”		
17:45 – 18:00	Oral presentation Andrew Sazonov	Oral presentation Isabelle Mirebeau	Oral presentation Maria Grazia Ortore	Oral presentation German Kulin		

	(DMSC ESS, Denmark) “Visualization and Processing of Single-Crystal Diffraction Data Measured with a Point Detector using Davinci Software”	(LLB, University Paris-Saclay, CEA, France) “Spin textures induced by quenched disorder in a reentrant spin glass: vortices versus frustrated skyrmions”	(DLES - Università Politecnica delle Marche, Italia) “Amyloid OI-peptides interaction with model membranes: when dynamics matters”	(JINR, Russia) “On observation of the Goos-Hanchen shift of a neutron beam”		
18:00 – 18:15	<u>Invited talk</u> Vladimir Lusin (ANSTO, Australia) “Neutron Diffraction Stress Analysis Down Under: 10 Year Experience in Industrial and Scientific Applications”	<u>Invited talk</u> Nicolas Martin (LLB, France) “Liquid crystalline structures and elasticity in a cubic chiral helimagnet”	Oral presentation Livia Balacescu (IA, RWTH Aachen, Germany) “Nanosecond dynamics of biopolymers: a comparative neutron spin echo study on folding intermediates of apo-myoglobin”	<u>Invited talk</u> Alexander Frank (JINR, Russia) “Neutron wave in matter - open questions”		
18:15 – 18:30			Oral presentation Jorg Pieper (University of Tartu, Estonia) “Neutron Scattering Experiments of Photoactive Proteins under Illumination”			
19:00	Conference Dinner					

Friday, July 5th

**VII European Conference on Neutron Scattering 2019
Saint-Petersburg Hall, second floor**

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) “Material for energy conversion”				
10:30 – 11:30	Coffee (First floor lobby, right side)				
	Exhibition (First floor lobby, center)				
	Neutron Instrumentation Saint-Petersburg Hall, second floor	Cultural Heritage and Archaeometry Gatchina Hall, first floor	Life Sciences Peterhof Hall, first floor	Fundamental Science Pavlovsk Hall, first floor	Microsymposium “Nuclear Medicine” Tsarskoye Selo Hall, second floor
11:30 – 12:00	<u>Invited talk</u> Bob Cubitt (ILL, France) “Neutron Optics And Instrumentation”	<u>Invited talk</u> Francesco Grazi (IFAC, Italy) “Ancient arms and armour production technologies revealed through neutron imaging and neutron diffraction”	<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”	<u>Invited talk</u> Victor Ezhov (NRC KI - PNPI, Russia) “Neutron lifetime measuring experiments with UCN magnetic storage”	
12:00 – 12:15	Oral presentation Jakob Voldum Ahlburg (Aarhus University, Denmark) “Fast heating - Sample Environments for for High Brightness Sources”	<u>Invited talk</u> Ekaterina Yatsishina (NRC KI, Russia) “Study of the Gilding Technology of the “Idol” from the 10th Century Mound “Chernaya Mogila” (“Black Grave”)”	Oral presentation Matthew Blakeley (ILL, France) “Visualizing hydrogen atoms and protons in proteins”	Oral presentation Anatolii Serebrov (NRC KI - PNPI, Russia) “Present status and future prospect of Neutrino-4 experiment search for sterile neutrino”	
12:15 – 12:30	Oral presentation Marek Bartkowiak (Paul Scherrer Institut, Switzerland) “Non-magnetic goniometer for dilution refrigerators”		Oral presentation Sophie Combet (LLB, Universite Paris-Saclay, Frence) “Membrane interaction of off-pathway prion oligomers and lipid- induced on-pathway intermediates during prion	Oral presentation Valery Nesvizhevsky (ILL, France) “A new approach to search for free neutron- antineutron oscillations based on coherent neutron and antineutron reflections”	

			conversion: a clue for neurotoxicity”		
12:30 – 12:45	Oral presentation Jonathan Taylor (ESS ERIC, Sweden) “Scientific software developments at the European Spallation Source”	Oral presentation Antonella Scherillo (STFC – ISIS, UK) “Neutron diffraction for archaeometry: results obtained on ancient Sardinian bronzes using the Italian Neutron Experimental Station INES”	Oral presentation 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”	Oral presentation Dmitrii Shapiro (NRC KI - PNPI, Russia) “Search for new internucleon short-range interaction in neutron scattering”	
12:45 – 13:00	Oral presentation Peter Mueller-Buschbaum (TUM – MLZ, Germany) “Next generation solar cells studied with GISANS”	Oral presentation Anna Fedrigo (ISIS, STFC, UK) “Imaging investigation of Chinese bimetallic sword fragment from 2nd-1st century BCE”	Oral presentation Dmitry Lebedev (NRC KI - PNPI, Russia) “Insights into genetic information storage, repair and translation provided by neutron scattering, synchrotron radiation and molecular dynamics”	Oral presentation Maxim Zhakharov (JINR, Russia) “Interaction of ultracold neutrons with a neutron interference filter oscillating in space”	
13:00 – 13:15	Oral presentation Aurel Radulescu (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-	Oral presentation 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”	Oral presentation Lindsay McGregor (ILL, France) “Identifying the correct protonation states of reactive intermediates in urate oxidase catalysis”	Oral presentation Stephan Sponar (Atominstut, TU-Wien, Austria) “Weak Measurements and Which-Way Measurements studied in Neutron Optics”	

	Vis, FTIR) at the SANS Diffractometer KWS-2 of JCNS”				
13:15 – 13:30	Oral presentation Andre Heinemann (GEMS&MLZ, Germany) “New Features and upgrades of the Small-Angle Neutron Scattering Instrument SANS-1 at MLZ”	Oral presentation Laszlo Rosta (BNC, Hungary) “Neutron methods for Heritage Science”	Oral presentation 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”	Oral presentation Sergey Kozhevnikov (JINR, Russia) “On ray and wave optics description in neutron planar waveguides”	
13:30 – 14:00	Closing Ceremony, Saint-Petersburg Hall, second floor				