

## Tuesday, October 8

08:30-09:00	<b>OPENING CEREMONY</b>
09:00-10:30	<b>SECTION: CONDENSED MATTER PHYSICS</b> Chair: Tianjiao LIANG Invited talks 45 min
09:00-9:45	<b>I1. Sergey V. STRELTSOV</b> <i>M.N. Mikheev Institute of metal physics of UB RAS</i> <b>Low-dimensional Magnetism: Frustrations, Kitaev Model, Kagome Magnets and Beyond</b>
09:45-10:30	<b>I2. Jinsheng WEN</b> <i>Nanjing University</i> <b>Neutron Spectroscopy Studies on the Elementary Excitations of Strongly-Correlated Electronic Systems</b>
10:30-11:00	<b>Coffee break</b>
11:00-13:00	<b>SECTION: CONDENSED MATTER PHYSICS</b> Chair: Sergey V. STRELTSOV Extended talks: 30 min / Regular talks 15 min
11:00-11:30	<b>E1. Benqiong LIU</b> <i>Institute of Nuclear Physics and Chemistry, CAEP</i> <b>Phase transition and unusual excitations in selected strongly correlated f electron systems</b>
11:30-12:00	<b>E2. Sergey KICHANOV</b> <i>Joint Institute for Nuclear Research</i> <b>Structural aspects for the physical properties of materials: neutron studies at high pressure</b>
12:00-12:15	<b>R1. Nan ZHAO</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Quasi One-Dimensional Ising-like Antiferromagnetism in the Rare-earth Perovskite Oxide TbScO<sub>3</sub></b>
12:15-12:30	<b>R2. Alexander I. KURBAKOV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Magnetic phase separation in oxygen-deficient double perovskite Sr<sub>2</sub>MnNbO<sub>6-δ</sub></b>

<b>12:30-12:45</b>	<b>R3. Natalia NOSOVA</b> <i>Ural Federal University named after the first President of Russia B. N. Yeltsin</i> <b>Magnetic states of iron-containing transition metal chalcogenides</b>
<b>12:45-13:00</b>	<b>R4. Igor A. ZOBKALO</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Antisymmetric interactions in multiferroic manganates <math>\text{RMn}_2\text{O}_5</math></b>
<b>13:00-14:30</b>	<b>Lunch</b>
<b>14:30-16:40</b>	<b>SECTION: CONDENSED MATTER PHYSICS</b> Chair: Jinsheng WEN Invited talks 45 min / Regular talks 15 min
<b>14:30-15:15</b>	<b>I3. Bing LI</b> <i>Institute of Metal Research Chinese Academy of Sciences</i> <b>Neutron scattering of barocaloric materials</b>
<b>15:15-16:00</b>	<b>I4. Sergey V. GRIGORIEV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Helimagnets with the Dzyaloshinsky-Moriya interaction: looking back, but moving forward</b>
<b>16:00-16:15</b>	<b>R5. Vladimir V. RUNOV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Measurement of magnetic-nuclear cross-correlations in small-angle scattering of polarized neutrons: a highly sensitive method for analyzing the scale of magnetic / nuclear correlations in non-magnetic and magnetic materials (examples of realizations)</b>
<b>16:15-16:30</b>	<b>R6. Maxim I. KOLKOV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Study of the magnetic structure transformation of spin-flop driven magnetodielectrics based on solid solutions of <math>\text{Pb}_2\text{Fe}_{2-x}\text{Mn}_x\text{Ge}_2\text{O}_9</math></b>
<b>16:30-17:00</b>	<b>Coffee break</b>

**17:00-19:00**    **SECTION: NEUTRON REFLECTOMETRY IN CONDENSED MATTER PHYSICS**  
Chair: Sergey V. GRIGORIEV  
Regular talks 15 min

<b>17:00-17:15</b>	<b>R7. Tao ZHU</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Polarized neutron reflectometer at CSNS and its application to the study of the magnetic thin films for spintronics</b>
<b>17:15-17:30</b>	<b>R8. Nikolay K. PLESHANOV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Polarized neutron reflectometry plus (PNR+)</b>
<b>17:30-17:45</b>	<b>R9. Nikolay K. PLESHANOV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>On prospects of neutron reflectometry at the reactor PIK</b>
<b>17:45-18:00</b>	<b>R10. Vladimir ZHAKETOV</b> <i>Joint Institute for Nuclear Research</i> <b>Study of layered Fibonacci systems using polarized neutron reflectometry</b>
<b>18:00-18:15</b>	<b>R11. Evgeny KRAVTSOV</b> <i>M.N. Mikheev Institute of metal physics of UB RAS</i> <b>Polarized neutron reflectometry in studying helimagnetism of magnetic multilayers</b>
<b>18:15-18:30</b>	<b>R12. Vladislav SYROMYATNIKOV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>About using of a compact supermirror transmission polarizer in the neutron research facilities of the PIK reactor</b>
<b>19:00-20:30</b>	<b>Dinner</b>

## Wednesday, October 9

9:00-10:30

### SECTION: MATERIAL SCIENCE

Chair: Alexander I. KURBAKOV

Invited talks 45 min

09:00-09:45

#### I5. Fengxia HU

*State Key Laboratory of Magnetism, Institute of Physics CAS*

**Neutron study on magnetocaloric material**

09:45-10:30

#### I6. Sergey V. ROGOZHKIN

*National Research Nuclear University MEPhI, NRC «Kurchatov Institute»*

**Study of precipitates in oxide dispersion-strengthened steels by SANS**

10:30-11:00

Coffee break

11:00-13:00

### SECTION: MATERIAL SCIENCE

Chair: Fengxia HU

Extended talks: 30 min /Regular talks: 15 min

11:00-11:30

#### E3. Anatoly M. BALAGUROV

*Joint Institute for Nuclear Research*

**Tetragonal phases in Fe-Ga alloys: A quantitative study**

11:30-11:45

#### R13. Tatiana VERSHININA

*Joint Institute for Nuclear Research*

**In situ neutron diffraction study of phase transitions in Fe<sub>68</sub>Ga<sub>32</sub> alloy**

11:45-12:00

#### R14. Changda WANG

*University of Science and Technology of China*

**Neutron and Synchrotron X-ray Scattering Study on the Structural Quantification of 2D Materials**

12:00-12:15

#### R15. Huaican CHEN

*Institute of high energy physics CAS, CSNS*

**The application of neutron scattering on the irradiation effects of materials**

12:15-12:30

#### R16. Huaican CHEN

*Institute of high energy physics CAS, CSNS*

**The research of the irradiation effect for the spallation neutron source materials**

<b>12:30-12:45</b>	<b>R17. Oleg GOLOSOV</b> <i>JSC Institute of Reactor Materials, Rosatom</i> <b>Study of highly irradiated dispersion U-Mo/Al fuel by small-angle scattering and neutron diffraction methods</b>
<b>12:45-13:00</b>	<b>R18. YiFeng LI</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Heterogeneous Multi-Phase Grains Improving the Strength-Ductility Balance in Warm-Rolled Fe-18Mn-3Ti Steel</b>
<b>13:00-14:30</b>	<b>Lunch</b>
<b>14:30-16:45</b>	<b>SECTION: NEUTRON SOURCES, DETECTORS AND EXPERIMENTAL TECHNIQUES: TOF INSTRUMENTS</b> Chair: Anatoly M. BALAGUROV Extended talks: 30 min / Regular talks: 15 min
<b>14:30-15:00</b>	<b>E4. Junrong ZHANG</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Data Analysis and Management at China Spallation Neutron Source</b>
<b>15:00-15:15</b>	<b>R19. Alexander B. ERESKO</b> <i>Joint Institute for Nuclear Research</i> <b>INS spectrometers at FLNP JINR: challenges and perspectives</b>
<b>15:15-15:30</b>	<b>R20. Tao XIONG</b> <i>Institute of high energy physics CAS, CSNS</i> <b>NuBS, a new neutron backscattering spectrometer at CSNS</b>
<b>15:30-15:45</b>	<b>R21. Evgenii V. LUKIN</b> <i>Joint Institute for Nuclear Research</i> <b>DN-6 diffractometer for studies of materials at ultrahigh pressures</b>
<b>15:45-16:00</b>	<b>R22. Juping XU</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Data analysis and experiment method of Multi-Physics Instrument</b>
<b>16:00-16:15</b>	<b>R23. Jianxiang GAO</b> <i>China Institute of atomic energy, CARR</i> <b>Research progress on neutron diffraction in CARR</b>

<b>16:15-16:30</b>	<b>R24. Taisen ZUO</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Development of the VSANS instrument and its multidiscipline applications</b>
<b>16:30-16:45</b>	<b>R25. Chunyong HE</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Indirect geometry molecular vibration spectrometer (iMovies) at CSNS</b>
<b>16:45-17:15</b>	<b>Coffee break</b>
<b>17:30-19:00</b>	<b>POSTER SECTION</b> Chair: Evgeny KRAVTSOV
<b>P1. Yuri SALAMATOV</b> <i>M.N. Mikheev Institute of metal physics of UB RAS</i> <b>A method for studying magnetic metallic nanoheterostructures by neutron reflectometry using a Gd reference layer</b>	
<b>P2. Elena SHERSTOBITOVA</b> <i>M.N. Mikheev Institute of metal physics of UB RAS</i> <b>Topological analysis of Li<sup>+</sup> cations migration paths in lithium-vanadium bronze of Li<sub>1+x</sub>V<sub>3</sub>O<sub>8</sub> type</b>	
<b>P3. Marina MAKAROVA</b> <i>M.N. Mikheev Institute of metal physics of UB RAS</i> <b>Magnetic moment ordering of Dy/Co superlattices from polarized neutron reflectometry</b>	
<b>P4. Bulat BAKIROV</b> <i>Joint Institute for Nuclear Research</i> <b>Convolutional Neural Networks for Neutron Tomography</b>	
<b>P5. Maria PETROVA</b> <i>Joint Institute for Nuclear Research</i> <b>Neutron beam monitor based on 10B-RPC with delay line</b>	
<b>P6. Anna SUSLOPAROVA</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Crystal structure and magnetism of SmCrTiO<sub>5</sub></b>	
<b>P7. Xiaoxue WU</b> <i>Institute of high energy physics CAS, CSNS</i> <b>Electrostatic Interaction Effect on Phase Separation of Polymer Blends at Low Salt Fraction</b>	

**P8. Artem KLAUZ**

*National Research Nuclear University MEPhI, NRC «Kurchatov Institute»*

**Determination of parameters for SANS data processing of ODS steels on the basis of complementary analysis by TEM and APT methods**

**P9. Maxim SYRTANOV**

*National Research Tomsk Polytechnic University*

**Development status of the neutron powder diffractometer at the TPU research reactor**

**P10. Chenyang WANG**

*Institute of high energy physics CAS, CSNS*

**Sample environment for catalytic**

**P11. Tatiana GLUSHKOVA**

*Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»*

**Prototypes of neutron PSDs based on ZnS:Li6 and SiPM scintillators**

**P12. German KULIN**

*Joint Institute for Nuclear Research*

**Non-stationary transformation of neutron energy at diffraction on a moving grating and SAW**

**P13. Natalia A. GRIGORYEVA**

*M.N. Mikheev Institute of metal physics of UB RAS*

**Time-of-flight neutron reflectometer for compact neutron source DARIA: Monte Carlo simulations**

**P14. Sergey V. GRIGORIEV,**

*Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»*

**Numerical Experiment on Small-Angle Scattering on Solid Nanospheres Using CANS DARIA**

**19:30-21:00**

**Dinner**

## Thursday, October 10

9:00-10:30

### SECTION: FACILITY REPORTS

Chair: Dongfeng CHEN

Extended talks: 30 min

9:00-9:30

#### E5. Tianjiao LIANG

*Institute of high energy physics CAS, CSNS*

**Report from CSNS**

9:30-10:00

#### E6. Egor LYCHAGIN

*Joint Institute for Nuclear Research*

**IBR-2 status report**

10:00-10:30

#### E7. Tianfu LI

*China Institute of atomic energy, CARR*

**CARR neutron facilities and applications**

10:30-11:00

**Coffee break**

11:00-13:00

### SECTION: FACILITY REPORTS

Chair: Alexander V. BELUSHKIN

Extended talks: 30 min

11:00-11:30

#### E8. Nadezhda CHUBOVA

*National Research Centre «KURCHATOV INSTITUTE»*

**Experimental capabilities of the neutron research complex based on the IR-8 reactor**

11:30-12:00

#### E9. Jie CHEN

*Institute of Nuclear Physics and Chemistry, CAEP*

**Recent Progress of Neutron Scattering Instrumentations and Applications in China Mianyang Research Reactor(CMRR)**

12:00-12:30

#### E10. Andrei F. GUBKIN

*M.N. Mikheev Institute of metal physics of UB RAS*

**Neutron material science facility at the IVV-2M reactor**

12:30-13:00

#### E11. Vladislav TARNAVICH

*Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»*

**Construction of the neutron facility for condensed matter physics on the PIK reactor: current state**

13:05-14:30

**Lunch**



**14:30-18:00**    **Excursion program (walking tour of the city)**

**19:00-22:00**    **OFFICIAL SRNS DINNER / BANQUET**

## Friday, October 11

**09:00-10:30 SECTION: NEUTRON SOURCES, INSTRUMENTS AND EXPERIMENT TECHNIQUES**

Chair: Vladislav TARNAVICH

Extended talks 30 min /Regular talk: 15min

**9:00-9:30**

**E12. Victor A. MITYUKHLYAEV** (*to be confirmed*)  
*Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»*  
**Advanced cold neutron sources at the reactor PIK: (status and development prospects)**

**9:30-10:00**

**E13. Jie CHEN**  
*Institute of high energy physics CAS, CSNS*  
**Energy-resolved neutron imaging instrument at CSNS**

**10:00-10:15**

**R26. German KULIN**  
*Joint Institute for Nuclear Research*  
**UCN source at periodic pulsed reactor**

**10:15-10:30**

**R27. Sergey TASKAEV**  
*Budker Institute of Nuclear Physics of SB RAS*  
**Accelerator based neutron source VITA**

**10:30-11:00**

**Coffee break**

**11:00-12:45**

**SECTION: NEUTRON SOURCES, INSTRUMENTS AND EXPERIMENTAL TECHNIQUES**

Chair: Jie CHEN (*INPC CAEP*)

Regular talk: 15 min

**11:00-11:30**

**E14. Alexander FRANK**  
*Joint Institute for Nuclear Research*  
**Acceleration effect in quantum mechanics and neutron optics**

**11:30-11:45**

**R28. Zhijian FAN**  
*Institute of Nuclear Physics and Chemistry, CAEP*  
**Recent Progress of Neutron Residual Stress Diffractometers and Applications at China Mianyang Research Reactor(CMRR)**

**11:45-12:00**

**R29. Mariia IUZVIUK**  
*Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»*  
**Complex of triple axis spectrometers at the PIK reactor**

<b>12:00-12:15</b>	<b>R30. Liubov A. AZAROVA</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Spin-echo and small-angle neutron scattering instruments at the PIK reactor</b>
<b>12:15-12:30</b>	<b>R31. Zijun WANG</b> <i>China Institute of atomic energy, CARR</i> <b>Development of silicon focusing neutron monochromator</b>
<b>12:30-12:45</b>	<b>R32. Evgeniy V. ALTYNBAEV</b> <i>Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute»</i> <b>Development of neutron instrument components by NRC "Kurchatov Institute" – PNPI</b>
<b>12:45-13.05</b>	<b>CLOSING CEREMONY</b>
<b>13:05-14:30</b>	<b>Lunch</b>

## LIST OF PARTICIPANTS

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<b>ALTYNBAEV</b>	Evgeniy	R32	
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<b>BAKIROV</b>	Bulat	P4	
<b>BALAGUROV</b>	Anatoly	E3	
<b>BELUSHKIN</b>	Alexander	-	
<b>CHEN</b>	Huaican	R15 R16	
<b>CHEN</b>	Jie	E9	
<b>CHEN</b>	Jie	E13	
<b>CHEN</b>	Dongfeng	-	
<b>CHUBOVA</b>	Nadezhda	E8	
<b>ERESKO</b>	Roman	R19	
<b>FAN</b>	Zhijian	R28	
<b>FRANK</b>	Alexander	E14	
<b>GAO</b>	Jianxiang	R23	
<b>GLUSHKOVA</b>	Tatiana	P11	
<b>GOGOLINSKY</b>	Kirill	-	
<b>GOLOSOV</b>	Oleg	R17	
<b>GRIGORIEV</b>	Sergey	I4, P14	
<b>GRIGORYEVA</b>	Natalia	P13	
<b>GUBKIN</b>	Andrei	E10	
<b>HE</b>	Chunyong	R25	
<b>HU</b>	Fengxia	I5	
<b>IUZVIUK</b>	Mariia	R29	
<b>KICHANOV</b>	Sergey	E2	
<b>KLAUZ</b>	Artem	P8	
<b>KOLKOV</b>	Maxim	R6	
<b>KRAVTSOV</b>	Evgeny	R11	
<b>KULIN</b>	German	R26, P12	
<b>KURBAKOV</b>	Alexander	R2	
<b>LI</b>	Bing	I3	
<b>LI</b>	YiFeng	R18	
<b>LI</b>	Tianfu	E7	
<b>LIANG</b>	Tianjiao	E5	
<b>LIU</b>	Benqiong	E1	
<b>LUKIN</b>	Evgenii	R21	
<b>LYCHAGIN</b>	Egor	E6	
<b>MAKAROVA</b>	Marina	P3	
<b>MITYUKHLYAEV</b>	Victor	E12	
<b>MOKHOVA</b>	Sophia	-	
<b>MOSTOVSHCHIKOVA</b>	Elena	-	
<b>MUSHNIKOV</b>	Nikolay	-	
<b>NOSOVA</b>	Natalia	R3	
<b>PETROVA</b>	Maria	P5	
<b>PLESHANOV</b>	Nikolay	R8, R9	
<b>PROSKURNINA</b>	Natalia	-	
<b>ROGOZHKIN</b>	Sergey	I6	

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<b>SALAMATOV</b>	Yuri	P1	
<b>SEMKIN</b>	Mikhail	-	
<b>SHERSTOBITOVA</b>	Elena	P2	
<b>SOLOVYEV</b>	Andrey	-	
<b>STRELTSOV</b>	Sergey	I1	
<b>SUSLOPAROVA</b>	Anna	P6	
<b>SYROMYATNIKOV</b>	Vladislav	R12	
<b>SYRTANOV</b>	Maxim	P9	
<b>TARNAVICH</b>	Vladislav	E11	
<b>TASKAEV</b>	Sergey	R27	
<b>VERSHININA</b>	Tatiana	R13	
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<b>WANG</b>	Fangwei	-	
<b>WANG</b>	Jing	-	
<b>WEI</b>	Shiqiang	-	
<b>WEN</b>	Jinsheng	I2	
<b>WU</b>	Xiaoxue	P7	
<b>XIONG</b>	Tao	R20	
<b>XU</b>	Juping	R22	
<b>YIN</b>	Panchao	-	
<b>ZHAKETOV</b>	Vladimir	R10	
<b>ZHANG</b>	Junrong	E4	
<b>ZHAO</b>	Nan	R1	
<b>ZHU</b>	Tao	R7	
<b>ZOBKALO</b>	Igor	R4	
<b>ZUO</b>	Taisen	R24	