



RACIRI 2019 Summer School
Structure, Real-time Dynamics and Processes in Complex Systems

04. - 11.08.2019, Svetlogorsk, Russia **Status: March 30, 2019**



NATIONAL RESEARCH CENTRE
 «KURCHATOV INSTITUTE»



Immanuel Kant
 Baltic Federal
 University

| Time | Sunday 04.08. | Monday 05.08. | Tuesday 06.08. | Wednesday 07.08. | Thursday 08.08. | Friday 09.08. | Saturday 10.08. | Sunday 11.08. | |
|-------------|---|---|--|--|--------------------|--|---|---------------------------------------|--|
| | Arrival | X-ray & Neutron Sources, Fundamentals of Scattering | Experimental Techniques & related Theory | Basic Science, Quantum Materials, Data Science | Cultural Excursion | Soft Matter & Life Science | Applications towards a Sustainable Development | Departure | |
| 07:30-08:30 | Breakfast | | | | | | | | |
| 08:30-09:30 | Opening Ceremony | L6 Alexander Belushkin Neutron techniques for the study of condensed matter | L12 Alexander Soldatov Local order in a disordered kingdom: insight with synchrotron radiation | Excursion & Lunch | | L18 Harald Reichert Hard x-rays for soft matter | L24 Evgeny Antipov Storage batteries - progress from neutron and x-ray research | Check out & Departure (before 12:00h) | |
| 09:30-10:30 | L1 Introductory Lecture Mikhail V. Kovalchuk | L7 Zahid Hussain Advanced techniques in photoelectron spectroscopy | L13 Hermann Dürr Electron and spin dynamics | | | L19 Sarah Koester Hard x-rays for cell imaging | L25 Stephan V. Roth Biodegradable materials from renewable resources | | |
| 10:30-11:00 | Coffee & Tea | | | | | Coffee & Tea | | | |
| 11:00-12:00 | L2 Vladimir Voronin State-of-the-art neutron sources | L8 Joseph Nordgren Soft x-ray emission spectroscopy and resonant inelastic x-ray scattering | L14 Hlynur Gretarsson Entering the world of spin-orbit-coupled materials using RIXS | | | L20 Jörg Pieper Structure and dynamics of biomolecules studied by neutron scattering | Free time | | |
| 12:00-12:30 | Group Picture | Free time | | | | Free time | Free time | | |
| 12:30-13:30 | Lunch | | | | | Lunch | | | |
| 13:30-14:30 | L3 Serguei Molodtsov X-ray sources - from Röntgen's tube via SR towards XFEL facilities | L9 Jaques Ollivier Time-resolved measurements by neutron scattering | L15 Marco Merlini X-ray studies of matter at extreme pressures and high temperature | | | L21 Valeriya Samygina Structural Biology - a weapon against disease | L26 Robert Schlögl Dynamics of catalysts for energy applications | | |
| 14:30-15:30 | L4 Bridget Murphy Basic scattering theory I - X-rays | L10 Marianne Liebi Advanced imaging techniques with coherent x-rays | L16 Joachim Stohr The nature of x-rays | | | L22 Eleonora Shtykova SAXS by stressed cells in vitro and in vivo | L27 Raif Vasilov Bio-economics as the basis for a sustainable development | | |
| 15:30-16:00 | Coffee & Tea | | | | | Coffee & Tea | | | |
| 16:00-17:00 | L5 Frank Schreiber Basic scattering theory II - Neutrons | L11 Anders Nilsson X-ray studies of the mysteries of water | L17 Jonathan Taylor Data management and software | | | Coffee & Tea | | | |
| 17:00-18:00 | Tutorials I | Tutorials II | Tutorials III | Tutorials IV | | Tutorials V | | | |
| 18:00-19:00 | Free time | Free time | Free time | SCIENCE SLAM Presentations | | L28 Andrey Popeko Keynote Lecture 150 years of Periodic Table of elements | Free time (or bus trip to Closing Dinner) | | |
| 19:00-20:00 | Dinner | | | Dinner | | Dinner | | | |
| 20:00-22:00 | Welcome Barbecue & Social Gathering | Poster Session I | Preparation of SCIENCE SLAM Preparation of Cultural Evening | Poster Session II | Dinner | Cultural Evening directed by the students | Closing Dinner & Awards | | |

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