

International Conference Condensed Matter Research at the IBR-2

<http://cmr-ibr.jinr.ru> cmr@nf.jinr.ru



April 25 - 29
2022
Dubna
Russia

The Frank Laboratory of Neutron Physics (Joint Institute for Nuclear Research) invites interested researchers to attend the International Conference on Condensed Matter Research at the IBR-2 reactor (CMR@IBR2-2022) for discussion of recent experimental results, prospects of future research, development of IBR-2 instruments and neutron scattering techniques.

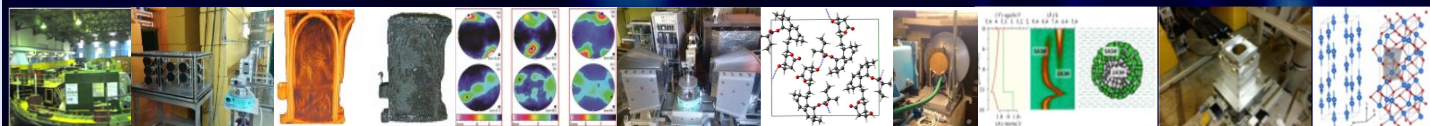
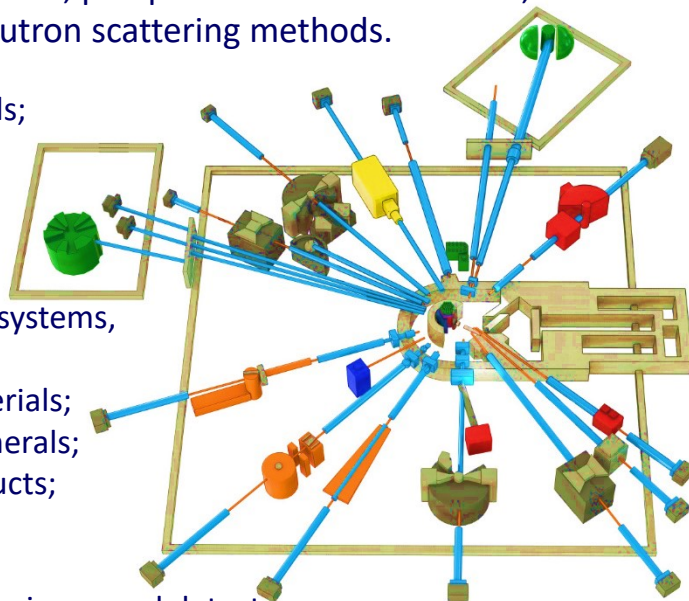
Neutron scattering research at the IBR-2 reactor covers different fields of condensed matter physics, materials science, chemistry, biophysical, geophysical and engineering sciences. During the last years, over 200 experiments per year were performed at the IBR-2 instruments by scientists from more than 20 countries in the framework of the User Program.

In light of the ongoing coronavirus pandemic, it is planned to organize the upcoming CMR@IBR-2 Conference ONLINE.

TOPICS

The Conference on Condensed Matter Research at the IBR-2 Reactor (CMR@IBR2-2022) aims to discuss the latest experimental results, prospects for future research, the development of IBR-2 instruments and neutron scattering methods.

- ✓ Functional and nanostructured materials;
- ✓ Magnetic colloid systems;
- ✓ Layered magnetic nanostructures;
- ✓ Carbon nanostructures;
- ✓ Materials under extreme conditions;
- ✓ Soft condensed matter (biological nanosystems, lipid membranes, polymers);
- ✓ Lattice and molecular dynamics of materials;
- ✓ Texture and properties of rocks and minerals;
- ✓ Residual stresses in materials and products;
- ✓ Neutron imaging;
- ✓ Development of IBR-2 instruments;
- ✓ Development of neutron scattering techniques and detectors;
- ✓ Application of complementary techniques in condensed matter research.



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PROCEEDINGS OF THE CONFERENCE

The limited number of papers selected by the organizing committee containing results presented at the Conference will be published in the **Journal of Physics: Conference Series**. The other papers will be published in the **Journal of Surface Investigation: X-Ray, Synchrotron and Neutron Techniques**. More details can be found at the conference web site.

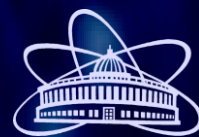
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CONFIRMED INVITED SPEAKERS

- Prof. A. Angelova (*"Lipid nanocarriers for delivery of natural neuroprotective compounds"*)
- Prof. V.T. Em (*"Stress diffractometry and development prospects"*)
- Prof. A.M. Korsunsky (*"Deep insights into hierarchical material structures with penetrating beams: neutrons, X-rays, and electron microscopies"*)
- Prof. M. Kozak (*"The National Synchrotron Radiation Centre SOLARIS and Development of the SOLCRYS Laboratory"*)
- Prof. V. Pomjakushin (*"Neutron diffraction at the SINQ spallation source"*)
- Prof. A. Senyshyn (*"Neutron Diffraction at the FRM-II Reactor: current status and perspectives"*)
- Prof. V.N. Shvetsov (*"Current Status and Upgrade Plans of the IBR-2 Pulsed Reactor"*)
- Prof. A.G. Sitdikov (*"Actual problems of the Archaeology of Volga region"*)
- Prof. S.V. Streltsov (*"The spin-orbit coupling and magnetic and structural properties of transition metal compounds: novel effects"*)
- Prof. L. Vekas (*"Ferrofluids: looking back and stepping forward"*)
- Prof. R.V. Veselovskiy (*"Recent advances in Rock magnetism and Paleomagnetism"*)
- Prof. S. Yefimova (*"ROS-regulating nanomaterials. Why and Where."*)

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DEADLINES

First announcement:	15.01.2022
Online registration and abstract submission:	01.03.2022
Online programme:	15.04.2022
Technical instructions for online participation:	20.04.2022

REGISTRATION FEE

There is no registration fee for participation.

WEBSITE

<http://cmr-ibr.jinr.ru>

CONTACT INFORMATION

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