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Life sciences with neutrons at IBR-2 reactor

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Currently, the scientific park of research instruments at the high flux pulsed reactor IBR-2 in FLNP JINR (Dubna, Moscow Region, Russia) consists of a complex of 15 neutron spectrometers for condensed matter studies, including 8 diffractometers, 3 reflectometers, 1 small-angle neutron scattering spectrometer, 2 inelastic neutron scattering spectrometers, and 1 spectrometer for neutron radiography and tomography. The User Program is successfully running for a suite of IBR-2 spectrometers. About 30% of the total number of submitted proposals for experimental time is for SANS instrument –YuMO spectrometer.

In recent years, in addition to traditional studies in the field of life sciences (membranes, peptide-membrane interaction, polymer complexes, etc.) there is a significant increase in interest in the study of biohybrid complexes of various nature on the YuMO spectrometer.

The report will provide an overview of the most interesting results of practical importance in the field of medicine and agriculture.

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