

P R E F A C E

I am offering the attention of the reader the following report on the scientific activity of the Frank Laboratory of Neutron Physics (FLNP) of the Joint Institute for Nuclear Research (JINR) in 2000. The report consists of two parts. The first is a brief review of the results of experimental and theoretical investigations in condensed matter physics, nuclear physics and applied research. The second contains experimental reports with more information about particular studies. The list of the 2000 publications closes the book.

In 2000 the IBR-2 reactor operated according to the approved working schedule, all of the 8 planned IBR-2 cycles were conducted.

The startup of the first stage of the new Fourier stress diffractometer was accomplished in the reported year. In the autumn cycles, the IBR-2 traditionally operated with a cryogenic moderator. Essential advances have been made in the execution of the IBR-2 modernization project. Namely, the development of the working project of the new movable reflector PO-3 completed and the manufacturing of the reflector started.

The main achievement of the year 2000 is that a group of FLNP scientists received the Russian State Prize for the development and realization of new neutron diffraction methods.



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