



PREFACE

We would like to offer the readers the scientific activity report of the Frank Laboratory of Neutron Physics for 2016. The first part of the report presents a brief review of the experimental and theoretical results achieved in the main scientific directions – condensed matter physics, neutron nuclear physics, applied research and development and creation of elements of neutron spectrometers for condensed matter investigations. The second part includes the reports on the operation of the modernized IBR-2 pulsed reactor, the development of the IREN neutron source and researches carried out on EG-5 facility. A list of publications for 2016, the information regarding the seminars and conferences organized in FLNP and a statistical view on the FLNP personnel structure are presented as well.

In 2016 the main achievements of the Laboratory were:

- successful fulfillment of the user program at the IBR-2 spectrometers;
- development of spectrometer complex at the IBR-2 reactor;
- development of IREN facility.

In 2016 the IBR-2 reactor operated for physical experiments for 2477 hours, the IREN facility 265 hours and EG - 620 hours.

FLNP has cooperation agreements in the field of neutron investigations with almost 200 scientific institutes and universities from more than 40 countries from all over the world. A significant contribution to this cooperation is made by the JINR Member States.

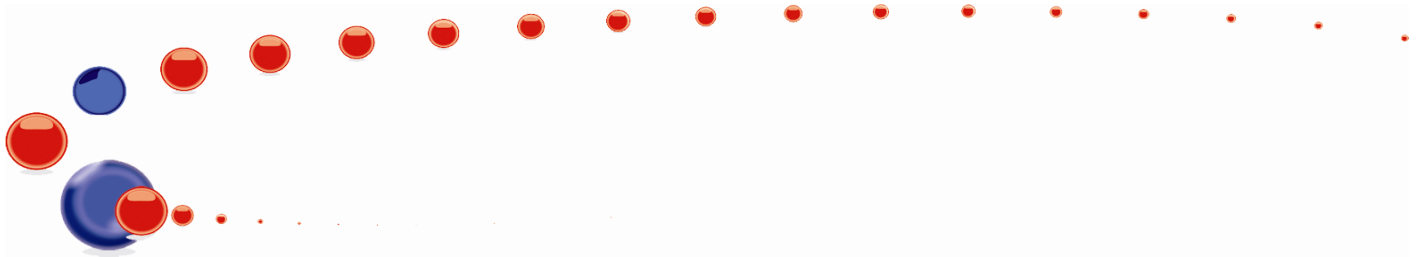
The FLNP staff consists of more than 500 employees in this about 170 less than 35 years of age. The scientific staff includes 93 Ph.D. and 19 D.Sc. researchers and 90 researchers and specialists from 16 of the JINR Member States (besides the Russian Federation) and associated members.

The organization of annual conferences and schools covering all FLNP research fields helps to recruit young specialists — one of the top priority tasks of the FLNP Directorate.

All these facts confirm that the Laboratory continues to develop successfully and dynamically, carrying out investigations in the interests of the JINR Member States.



V.N. Shvetsov
Director



Members of the Directorate of the Frank Laboratory of Neutron Physics:

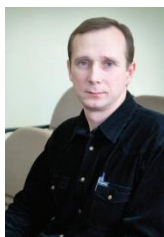


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