

Research of radiation resistance of different materials at the IBR-2 reactor in 2025-2032

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In the spring of 2025, the IBR-2 pulsed fast research reactor will continue its work on a physical experiment at the Frank Laboratory of Neutron Physics of the Joint Institute for Nuclear Research after a planned shutdown.

The unique characteristics of a pulsed reactor make it possible to study not only the radiation resistance of electronic components or semiconductors (nanoheterostructures etc) for tokamaks, colliders, and other megascience-class facilities, but also to conduct various studies of a wide range of materials and equipment for power and research nuclear reactors, as well as to conduct research in the field of radiochemistry, radiobiology, archaeology, mineralogy, etc.

Currently, the Joint Institute for Nuclear Research continues to collect applications for conducting such experiments in broad collaboration with the participating countries of the Institute, scientific and any other organizations interested in using neutrons to study the structure and properties of materials.