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Development of neutron detectors for the spectrometers of the IBR-2 reactor

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The different types of instruments for condensed matter investigation on the external beams of the IBR-2 pulsed research reactor in Frank Laboratory of Neutron Physics of Joint Institute for Nuclear Research (FLNP JINR) require different neutron detectors for them. This leads to the necessity of developing a variety of detectors in the Laboratory that are used in experiments. The neutron detection systems developed and used at the instruments on the external beams of the IBR-2 pulsed research reactor (gaseous ^3He based detectors: 1D and 2D detectors (MWPC), “ring” detectors; ^6Li scintillator based detectors with wavelength shifting fibers, detectors and monitors with solid ^{10}B converters etc.) as well as the current status and projects carried out at FLNP on development of detectors and data acquisition systems will be presented.

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