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Installation of New Wide-Aperture Scintillation Detectors ASTRA-M and BSD on the IBR-2M Fourier-Diffractometers: First Results

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The Department of Spectrometers Complex (DSC) of IBR-2 plays an important role in maintaining the efficiency and development of the experimental facilities at the IBR-2 reactor. One of the directions of DSC is the development and creation of wide-aperture neutron detectors based on the $6\text{LiF}/\text{ZnS}(\text{Ag})$ scintillator. As part of the modernization of the scientific installations of the IBR-2 reactor, the ASTRA-M and BSD detectors were created. At the moment, the detectors have been created and installed on the diffractometers of the IBR-2 reactor.

The report will present the first results obtained from the ASTRA-M and BSD detectors, and provide a comparison with the previous ones.

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