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## PREPARATION FOR PRODUCTION OF DIAGNOSTIC EQUIPMENT FOR ITER AT BINP SB RAS <sup>\*)</sup>

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The Budker Institute of Nuclear Physics has been carrying out design work on diagnostic equipment for the ITER installation since 2013. The list of equipment under development includes: design and integration of upper diagnostic ports ## 02, 07, 08, equatorial diagnostic port #11 as the main supplier, as well as in the form of a manufacturer and developer of a part of the system in diagnostics: vertical neutron chamber (upper and lower), divertor neutron flux monitor, neutral particle analyzer (in-vessel part).

In 2023, most of the work carried out at the BINP SB RAS under the ITER project entered the production or pre-production stage. In particular, the production and assembly of diagnostic shielding modules of the equatorial port #11 is underway, and preparations for the production of the diagnostic shielding module of the upper port #07 are underway. The final designs of the interspace support frames and port cell of the upper ports #02 and #08 have been prepared and will pass FDR in 2024, after which they will move to the pre-production stage.

Production of elements of the upper vertical neutron chamber is planned for 2024, which requires careful preparation of documentation and production itself. Procurement the required material.

The components of the divertor neutron flux monitor for the first plasma have also entered the production stage.

The report will present the progress and degree of readiness for the production of diagnostic equipment for the ITER installation.

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<sup>\*)</sup> [abstracts of this report in Russian](#)