RADIATION–TRANSPORT ANALYSIS OF THE ITER UPP 02, 08 2018 year DESIGN

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The results of radiation transport modelling of the ITER Upper Port Plugs (UPP) 02 and 08 [1], as of 2018 year design, are presented. Radiation fields and heating power density distributions are obtained for the recent and proposed changes in the UPP design. The application of ADVANTG [2] and MCNP [3] simplifying tool MC-kit (RFDA proprietary development|) are demonstrated.

Drastic computation performance improvement is achieved with the new tools application. This allows increasing the computations precision and number of considered model variants.

The work is supported with the state contract of 19.04.2018 № Н.4а.241.19.18.1027 «Special equipment development, experimental manufacturing, testing and delivery preparation to meet Russian Federation’s liabilities on ITER project in 2018 year»

References

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