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.

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References

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