

Comments on EQDSK Files for Reference ITER Scenarios 2 and 4 for Extended Area.

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The xbox.tar.gz and xbox4.tar.gz archives contain eqdsk files calculated with the PET code for equilibria of the ITER reference Scenario 2 [1] (Scen2_129x129xbox.dat) and Scenario 4 [2] (Scen4_bn2.57_129x129xbox) with the poloidal flux calculated in the extended domain. The coordinates of the computational boxes are: (Rmin, Zmin)=(3.0m, -5.7m) (Rmax, Zmax) = (9.7m, 5.7m) for xbox.tar.gz and (Rmin, Zmin)=(4.0m, -5.7m) (Rmax, Zmax)=(9.7m, 5.7m) for xbox4.tar.gz.

The convergence studies were made for both Scenario 2 and 4 equilibria. The difference between the boundaries from the equilibrium calculations with 129x129 and 257x257 grid sizes is less than 0.1 cm and lies within the accuracy of calculations.

Details of plasma parameters are documented in the U-file format in the International Multi-tokamak Confinement Profile Database (see #10020201, #20040201) [3] and in the ITER documentation compiled by Yu. Gribov in the EXCEL format [4].

[1] Polevoi A.R., Medvedev S.Yu., Mukhovatov V.M., et al, J. Plasma Fusion Res. SERIES, Vol. 5 (2002) 82-87

[2] Polevoi A.R., Medvedev S.Yu., Pustovitov V.D., et al 2002 Proc. 19th Int. Conf. on Fusion Energy 2002 (Lyon, 2002) (Vienna: IAEA) CD-ROM file CT/P-08 and
<http://www.iaea.org/programmes/ripc/physics/fec2002/html/fec2002.htm>

[3] Roach C.M., et al, 'The 2008 Public Release of the International Multi-tokamak Confinement Profile Database', submitted to NF

[4] ITER Documents IDM: ITER_D_22KZK3, ITER_D_22KZM2