ETS

\$Id: Doxyfile 2162 2020-02-26 14:16:09Z g2dpc \$

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Chapter 1

ETS

This is where the ETS documentation should be supplied

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The ETS is a wonderful code.

1.1 General Comments

1.1.1 Grids

ETS uses two types of grids for the toroidal flux coordinate, not normalized ρ and normalized x, which are defined as:

$$ho = \sqrt{rac{\Phi}{\pi B_0}} \ [extsf{m}];$$

 Φ [Wb] is the toroidal flux and B_0 [T] is the magnetic field measured at the characteristic major radius of the device R_0 [m];

 $x=rac{
ho}{
ho_b}$ [-], where ho_b is the coordinate of plasma magnetic boundary.

$$\frac{\partial}{\partial \rho} = \frac{\partial}{\partial x} \frac{\partial x}{\partial \rho} = \frac{1}{\rho_b} \frac{\partial}{\partial x}$$

All interfaces between different modules and subroutines use ρ as the primary coordinate, internally, transport equations are solved using xcoordinate.