

CHI Equilibrium reconstruction using ESC

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1 Basic properties of ESC

ESC represents a powerful Equilibrium (and Stability) Code with several outstanding properties

1. Well organized and transparent structure of the code maintained by a special software (the CodeBuilder).
2. Maintenance of the Input/Output as the Data Base.
3. Flexible and powerful interactive interface with the user with immediate access to the help on control parameters of the codes
4. Automatic maintenance of the code development documentation consistent the current state of the code.
5. Fast fixed boundary solver based on Newton scheme supplemented by the free boundary solver.

Recently, the equilibrium reconstruction routines have been incorporated into the code, which has been used for these purposes in NSTX and JET.

