

ISM ACT1 : progress in simulation of NTM effect in JET discharge

- 2013.06.07 -

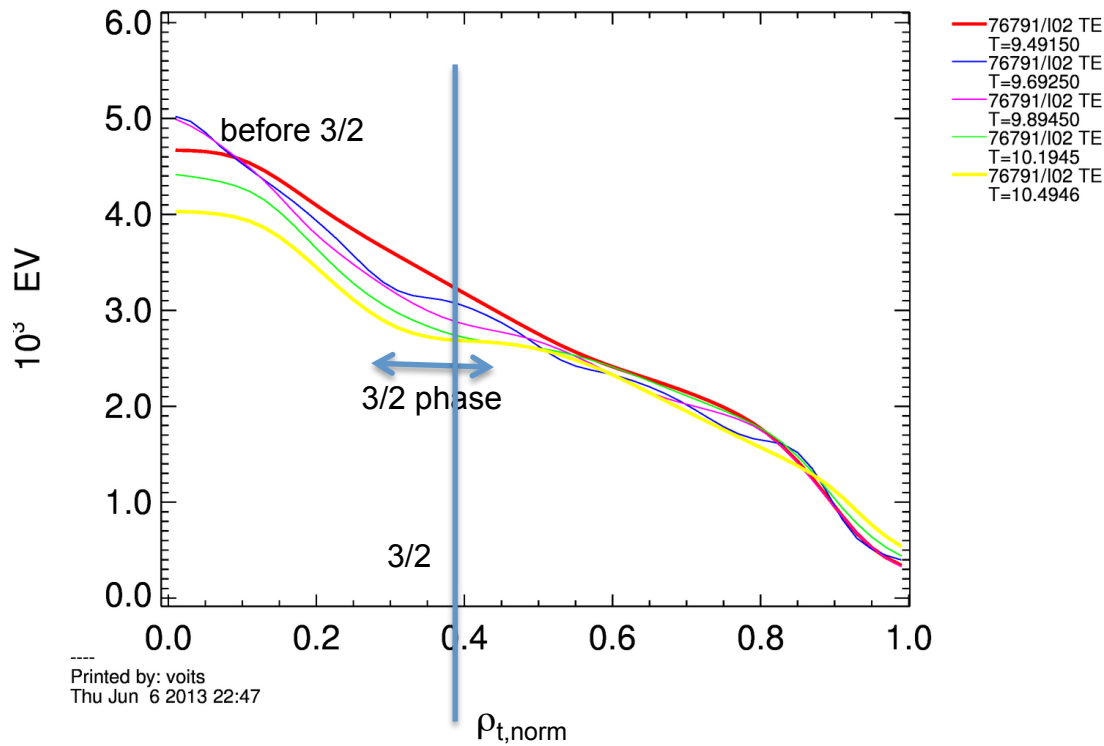
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- Experimental T_e and n_e reproduced in ETS-C for JET #76791
- equilibrium recalculated from CHEASE
- q profile and diffusion coefficients from CRONOS
- check of NTM module to simulate the 3/2 effect on T_e profiles

Comparison of T_e profile for JET #76791

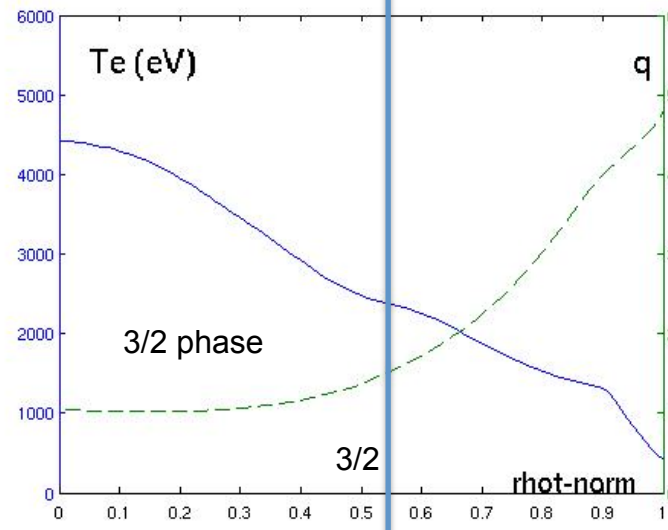
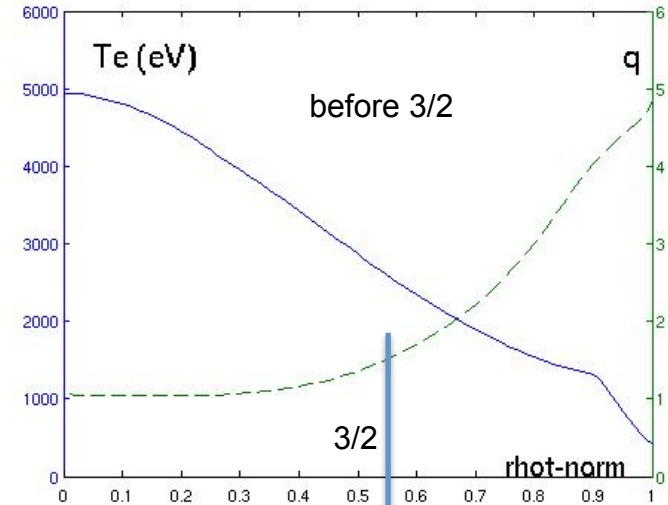
Exp. data from TRANSP

JET Data Display



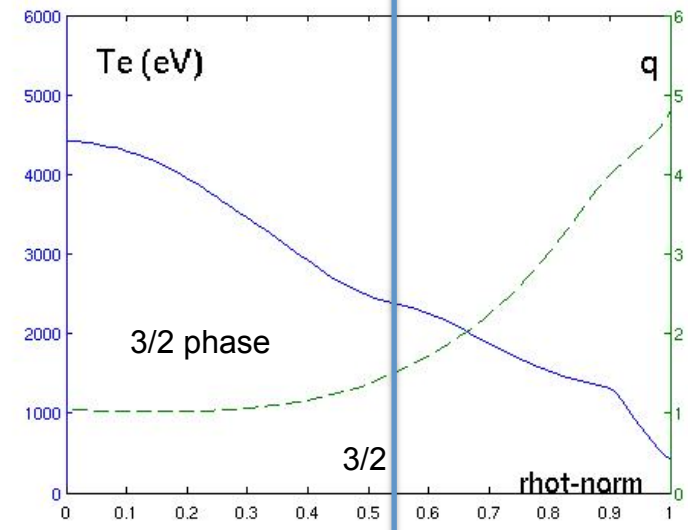
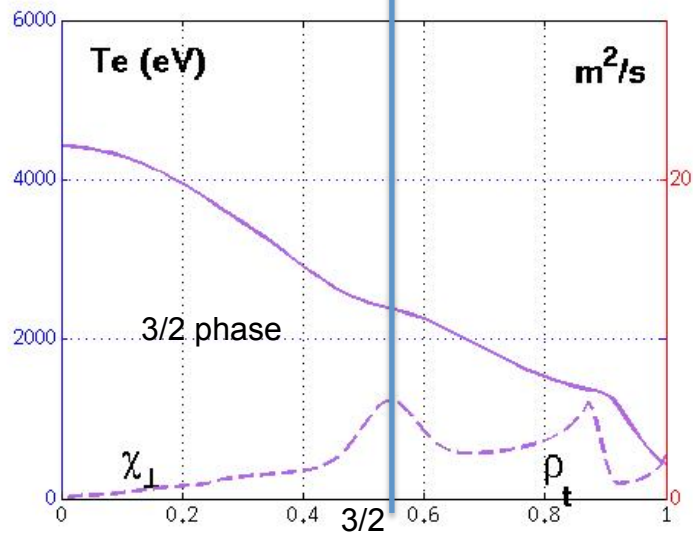
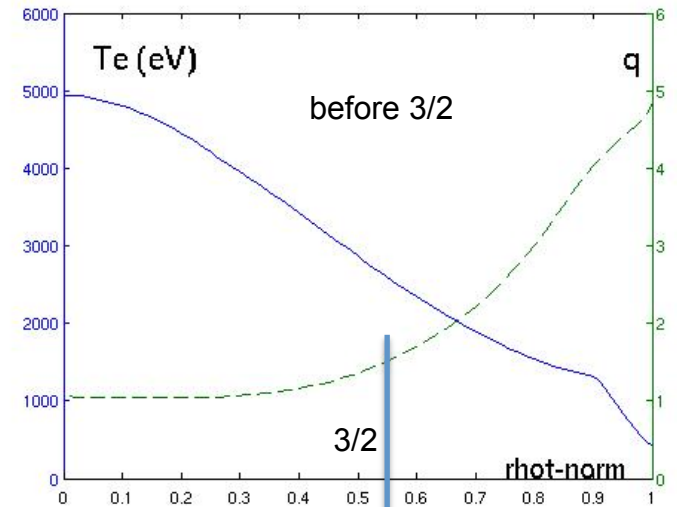
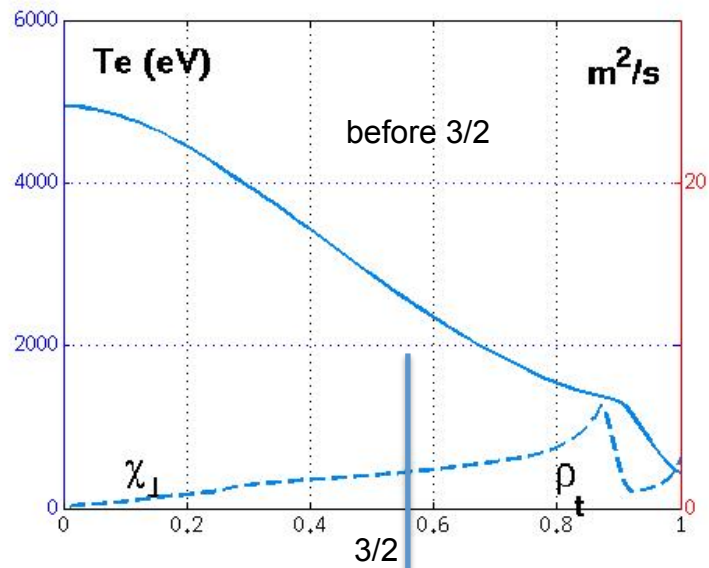
=> no consistency in TRANSP between T_e and q profile

Simulations in ETS-C



NTM effect on T_e profile changing diffusion coefficient $\chi_{Te,perp}$

simulations



Next steps :

- NTM effect on n_e changing the diffusion coefficient $\chi_{ne, \text{perp}}$
- NTM effect in other JET shots
- evaluations of the confinement energy drop from the saturated mode width