

Effect of the EC torque on slow plasma rotation under central ECH/ECCD for NTM onset

Fit of evolution of toroidal velocity under effect of central ECH/ECCD in L-mode, low density for AUG and TCV tokamaks

- rotation fitted by a semi-empirical momentum eq. with a torque S_{EC} associated to P_{EC} absorption ($P_{EC} > P_{oh}$) causing enhancement of residual turbulent Reynolds stress with a source near the center and in some cases near the edge
- sources modeled with Gaussian shape proportional to the central peak of $-\partial_r \nabla p_e$

Fit of AUG rotation prfls (2 sources)

Fit of TCV rotation prfls (1 source)

(experimental red lines, calculated green lines)

