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Characterization of the QSH state: what drives the dynamics of the magnetic and thermal structure?



. In the RFP the equilibrium becomes 3D at high plasma current

ii. The dynamics of the QSH state involve competition between nonlinear energy transfer and its suppression by shear

iii. Resonant Magnetic Perturbation provides control of the orientation of the helix iv. Time evolution of n_e and T_e highlights different dynamics, but the driving

v. Reconstruction of the equilibrium from internal measurements with V3FIT