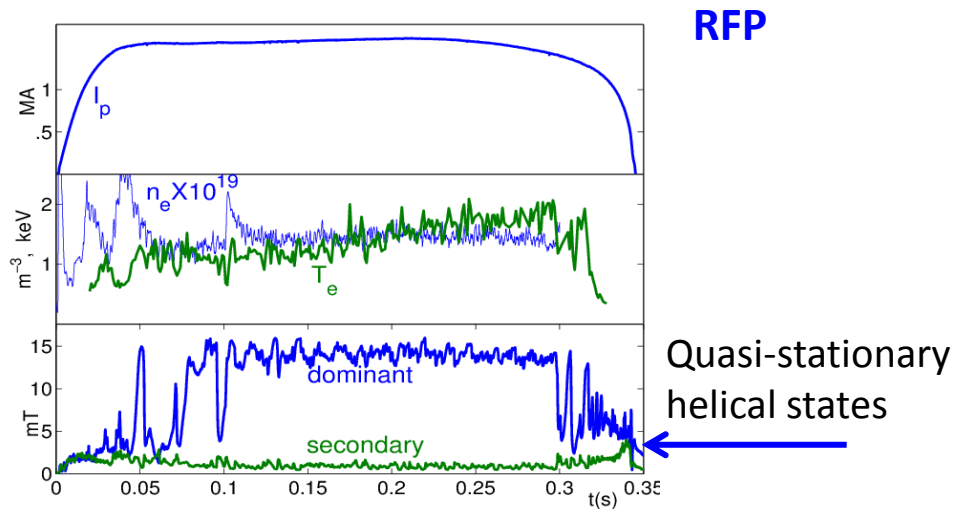
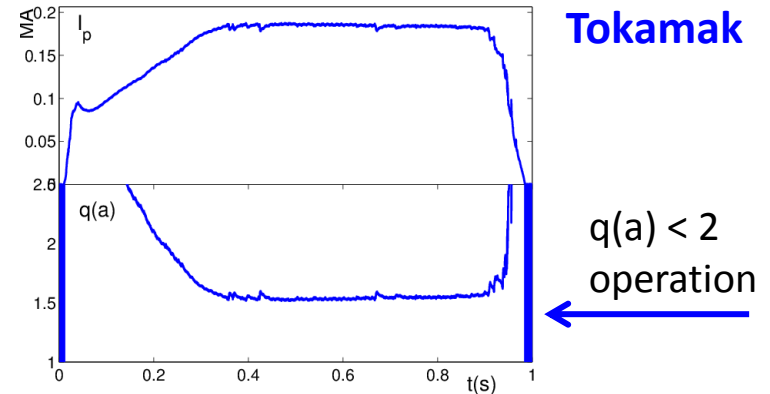


RFX-mod can operate as a Reversed Field Pinch and as a Tokamak



Recent achievements as a RFP:

- quasi stationary helical states developing ITBs, $\chi_e < 5 \text{ m}^2/\text{s}$ and $D \approx 1 \text{ m}^2/\text{s}$
- Deuterium operation: higher pedestal & τ_E increase by $\approx 30\%$
- Helical state dynamics well reproduced by 3D nonlinear MHD simulations
- exposure of material samples to high power loads ($\leq 100 \text{ MW}/\text{m}^2$)



Recent achievements as a tokamak:

- safe operation at $q(a) < 2$
- sawtooth control by MP
- runaway decorrelation by MP
- disruption avoidance by $q(a)$ control
- error field control

In both configurations:
validation for MHD codes