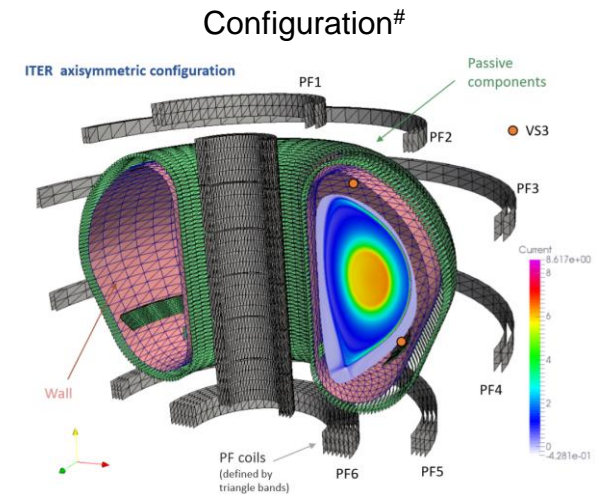


Non-linear MHD simulations of ITER VDE with runaway electrons

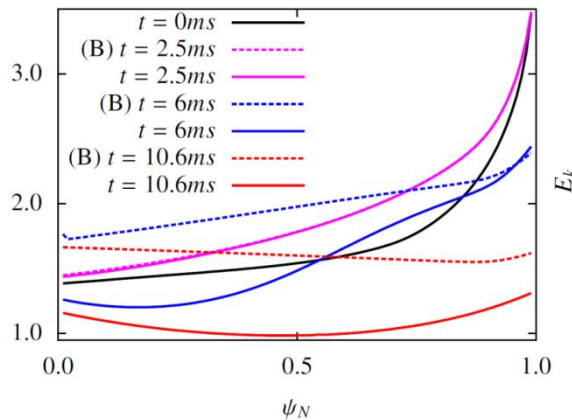
Non-linear MHD simulations of ITER VDE with simultaneous generation of runaway electrons using JOREK-STARWALL* code

- Cold VDE of a non-stochastic post thermal-quench plasma
- $I_p=15MA$, constant density and constant temperature
- Effects of all conducting structures considered
- Fluid model for runaway electrons

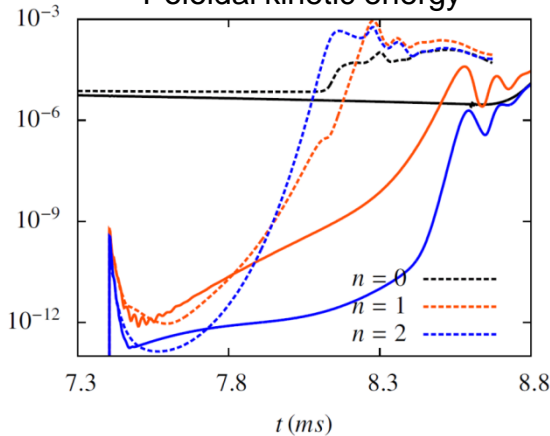


Preliminary results

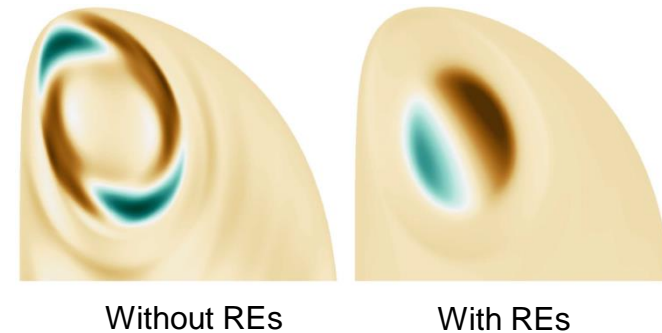
Safety factor



Poloidal kinetic energy



Electric potential : non-zero modes



- RE current profile peaking leads to $q < 1$
- (1,1) mode observed to dominate in the presence of REs\$

* Czarny et al . J. Comput. Phys. 2008

* Hoelzl et al . J. Phys 2012

Artola et al .NF 2018

\$ Aleynikova et al. PPR 2016