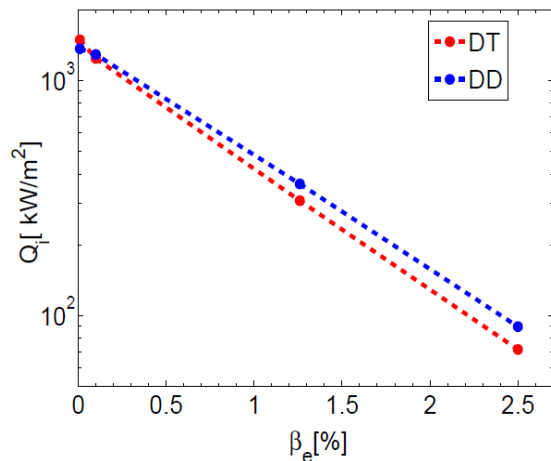
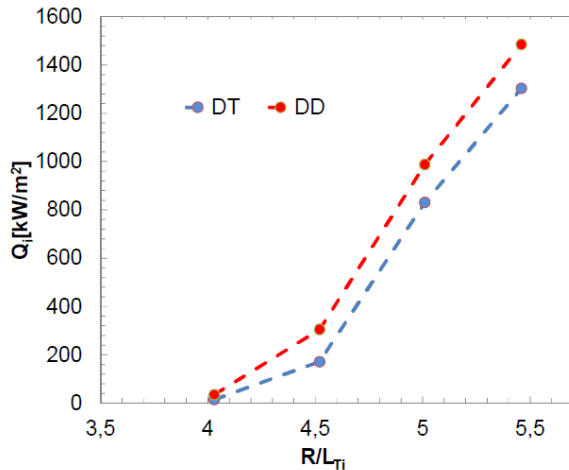


ITER GENE nonlinear simulation @ $\rho=0.33$.
finite- β , collisions, realistic geometry, ExB
and parallel flow shear (pfs) effects



- An isotope effect is found when including finite- β , ExB and pfs effects in non-linear DD vs DT simulations for ITER
- GyroBohm scaling obtained in electrostatic conditions without ExB and pfs
- No deviations for GB scaling obtained in linear scans \rightarrow non-linear process
- Non-linear coupling between zonal flows, mass and finite- β obtained
- Mesoscale nature of the isotope effect found in agreement with recent experiments