Disruption modelling with M3D-C¹

- High-order finite element code M3D-C¹ solves 3D nonlinear extended MHD equations over transport time scales [Jardin Comput. Sci. Discovery 2012]
 - Thick resistive wall model includes eddy & halo currents [Ferraro Phys. Plasmas 2016]
 - Impurity & pellet models
- Used for 3D nonlinear modelling of hot NSTX VDE [Pfefferle Phys. Plasmas 2018]
- VDE benchmarks with NIMROD & JOREK
 - Linear: successful, nonlinear: ongoing
- Future work:
 - VDE benchmark with CarMaONL
 - Coupling with CARIDDI (3D model of conducting structures)

