

## Possible CEMM Nonlinear Benchmarks

1. Forced magnetic reconnection (error field penetration, Taylor problem)
  - Callen/Hegna to lead
  - Ferraro, Beidler,...
  
2. VDE benchmark
  - Test problem comparing halo current in different wall models.
  - Thin wall (Grin) vs finite thickness wall (M3D-C1)
  - Sovinec, Ferraro, Jardin, Strauss, Breslau, Pfefferle,...
  
3. JA-2 interaction of different tearing modes of different Helicities
  - ITPA Benchmark problem led by Hender
  - Both cylindrical and toroidal
  - Initial comparison of linear growth rates
  - Jardin, Zhu now involved
  
4. Comparison of disruption mitigation modeling
  - Izzo, Ferraro, Fil,...