

# NCSX

# Physics Requirements

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# Physics Requirements

- Combined Physics/Engineering Document  
Components exchanged, but merger not yet started
- Large Open Issues
  - Flux surface quality  
Stochasticity & islands  
low beta & high beta
  - Eddy current in coil/wall structure
    - a) Islands produced by equilibrium changes
    - b) Kink eigenfunction penetration  $< \sim 25\text{ms}$
  - Accessible non-bootstrap current profiles