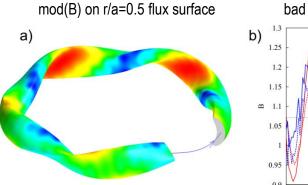
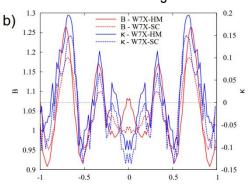
Transport studies for Wendelstein 7-X



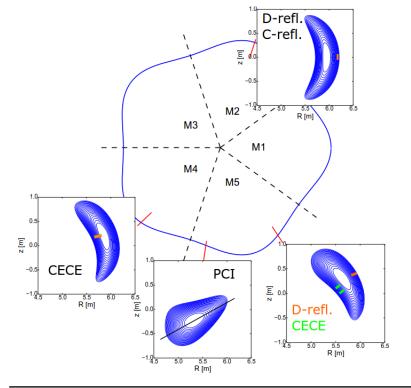
TEM instability in W7-X



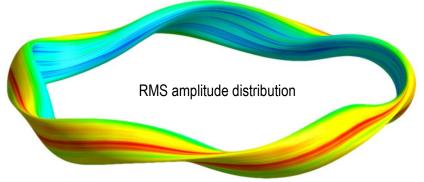
bad curvature vs. magnetic field

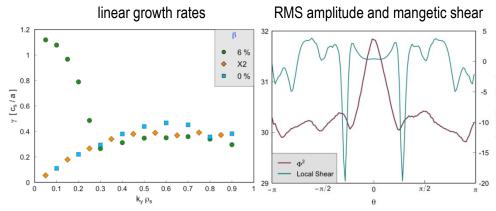


set of fluctuation diagnostics



GENE ITG simulations for W7-X





- TEM instability expected close to triangular cross section
 - ⇒ strongly dependent on magnetic field configuration
- ITG amplitude strongly structured on flux surface
 - ⇒ located in bad curvature region, quiet on inboard side
 - ⇒ITG similar to low-β case; no kinetic ballooning expected
 - ⇒ local magnetic shear causes toroidal flcutuation envelope
- diagnostics able to experimentally detect those key features