Stellarator Plans in PPPL Theory Group

Transport

- Global gyrokinetic transport code (GTC).
  - Extension to handle stellarator neoclassical transport (Wang, FY08).
  - Extension to stellarator turbulence (Wang, FY09).
- Study physics of interaction between stellarator neoclassical effects and turbulent transport. Talk by Mynick.

Stability

- Nonlinear calculations with M3D. Collaboration with Strauss et al (Hudson).
- High n energetic particle driven modes – the HINST code. Talk by Gorelenkov.
- Global energetic particle driven modes – nonlinear calculations with M3D. Talk by Fu.

Equilibrium

- 3D Equilibria with Islands. Speed up and put additional physics in the PIES code. Talk by Monticello.