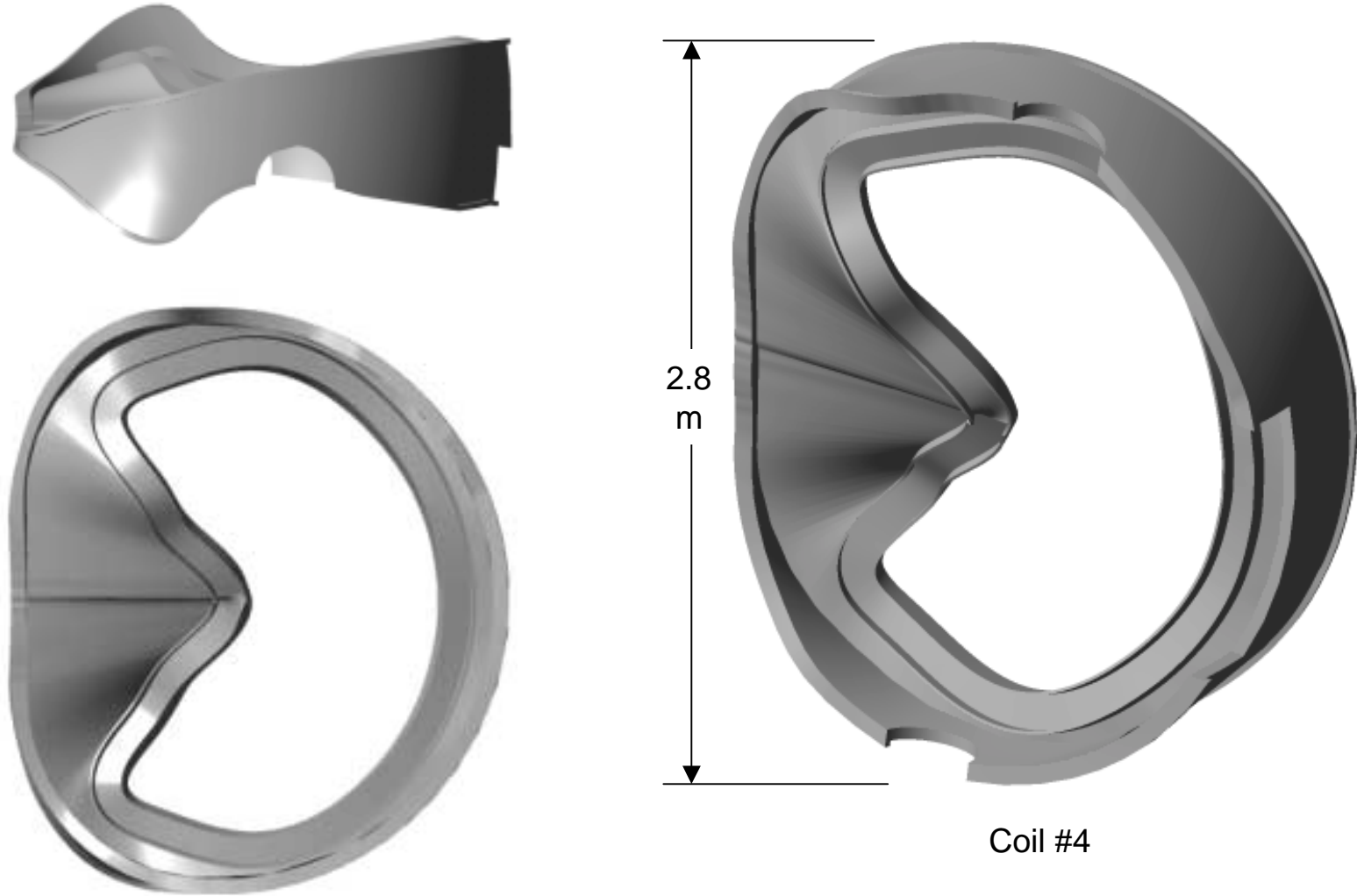
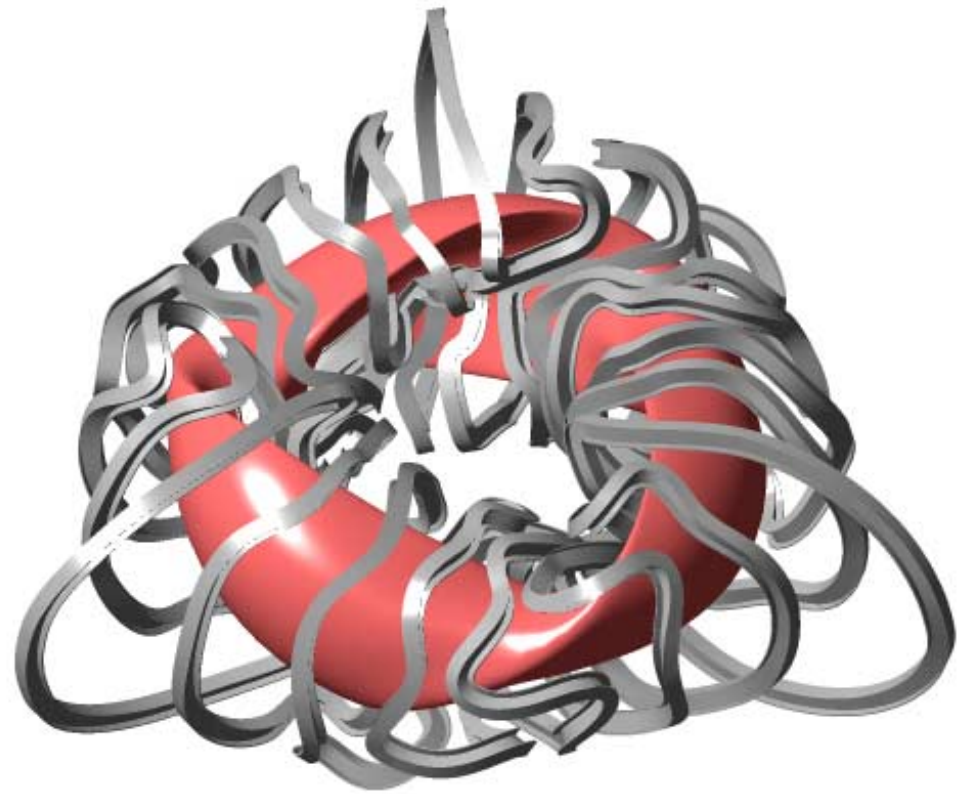
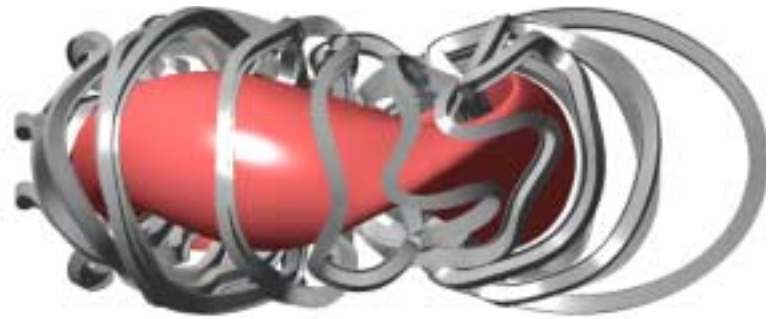
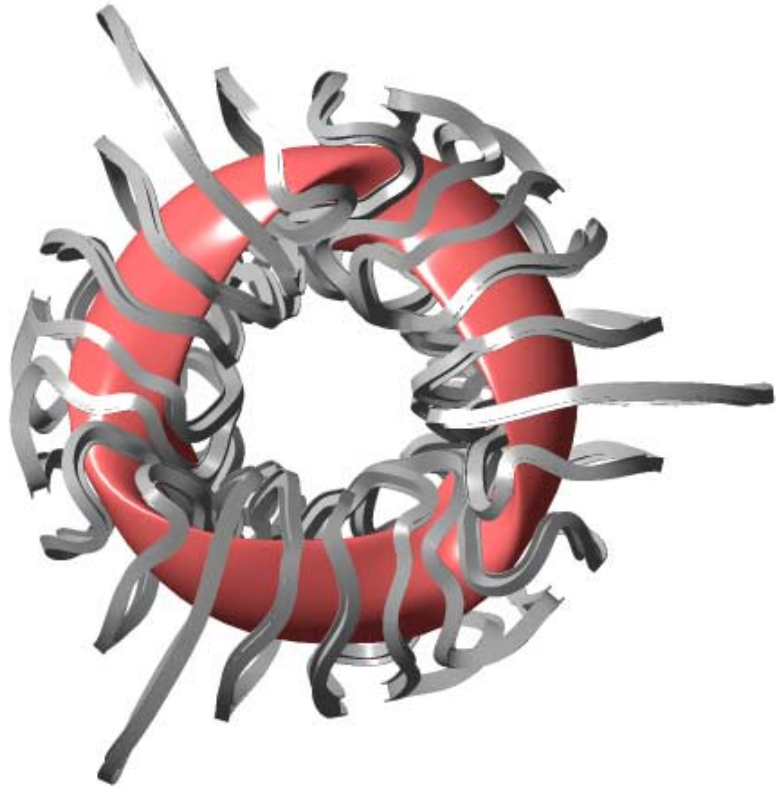


Structural Arrangement Based on Case #0907

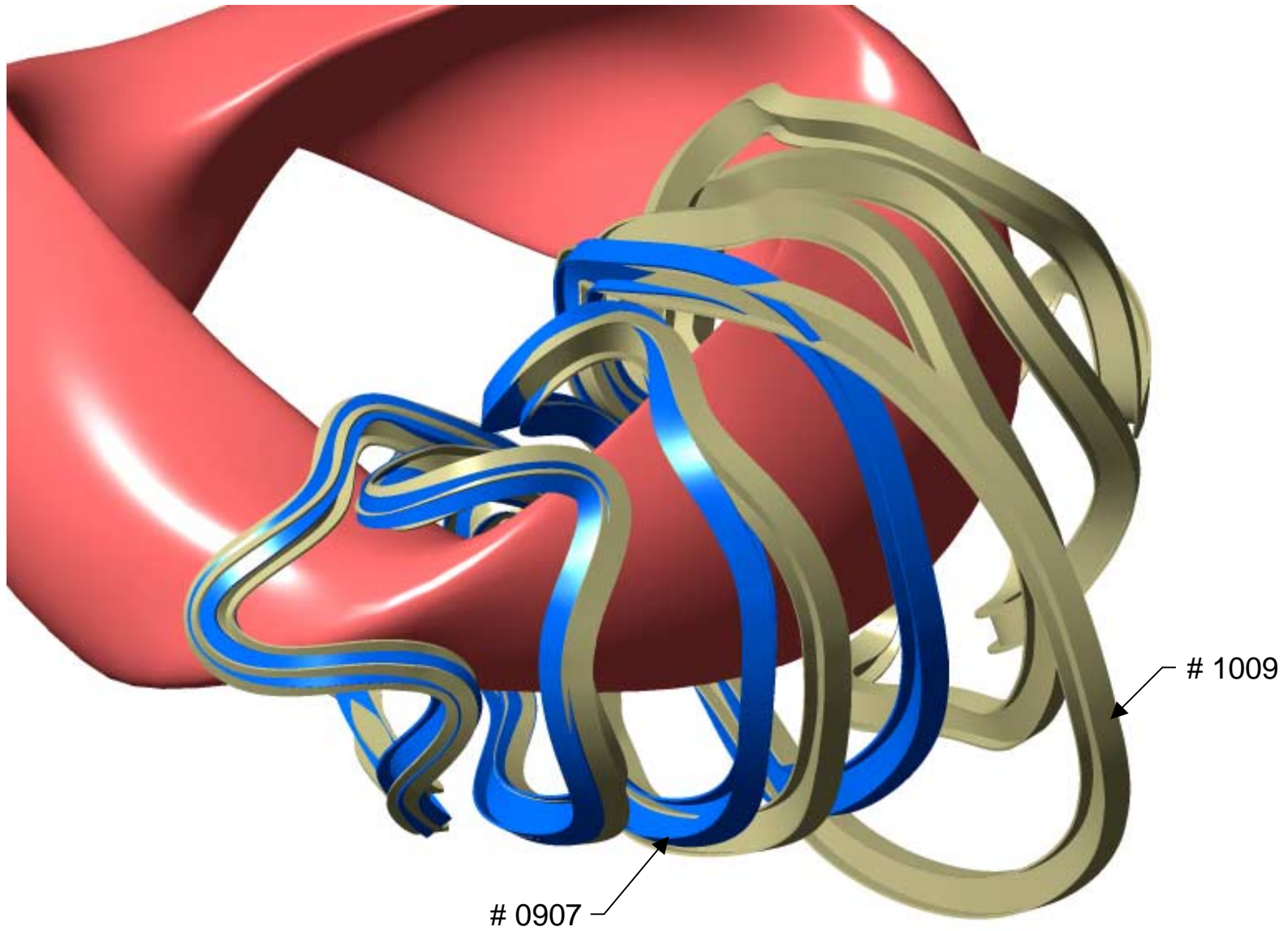
- Winding form and support structure are an integral casting (~6000-lb ea)



21 Modular Coils, Case #1009

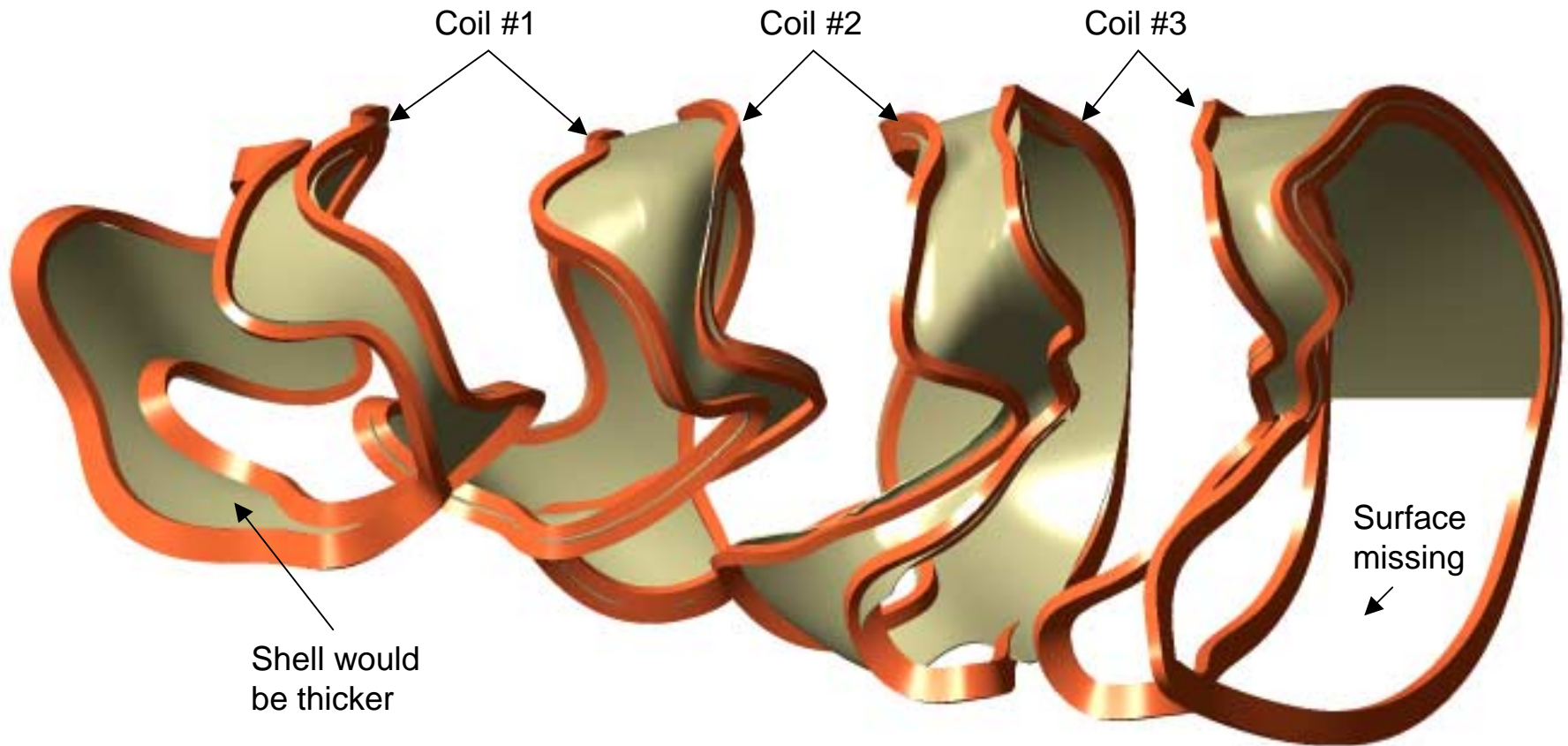


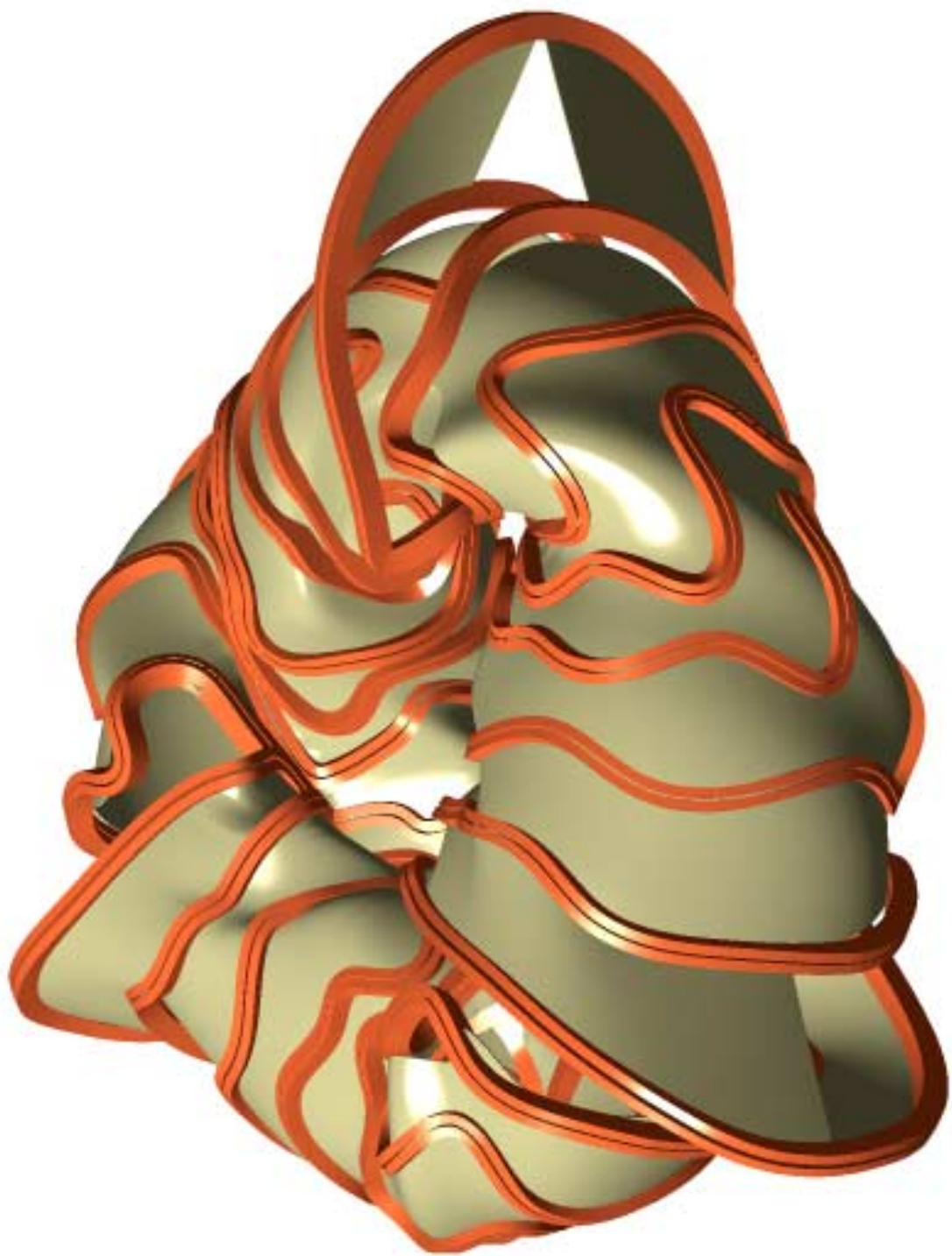
Comparison with Case #0907



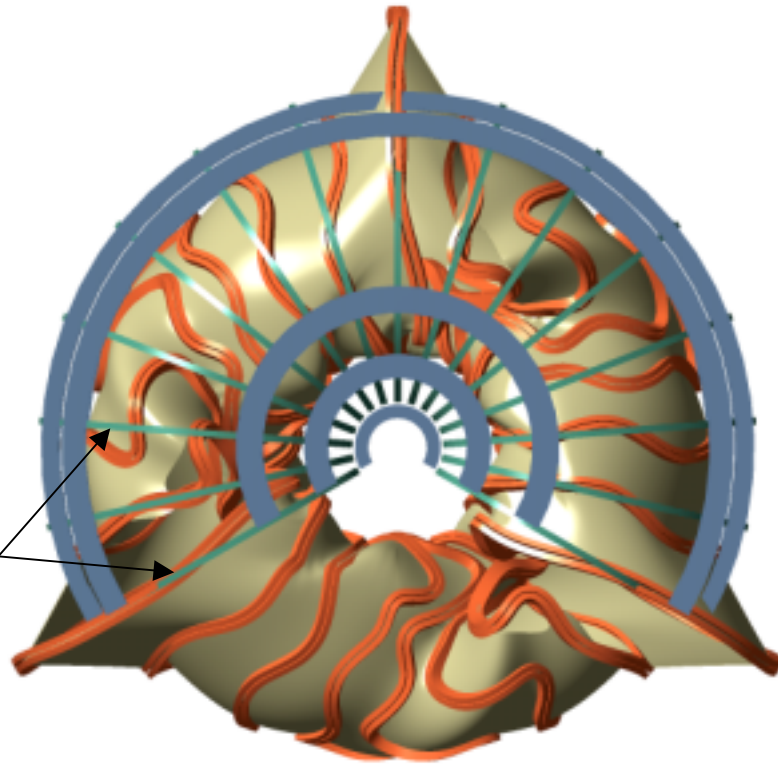
Split Coil Concept

- Conformal shell segments with winding pack on each end

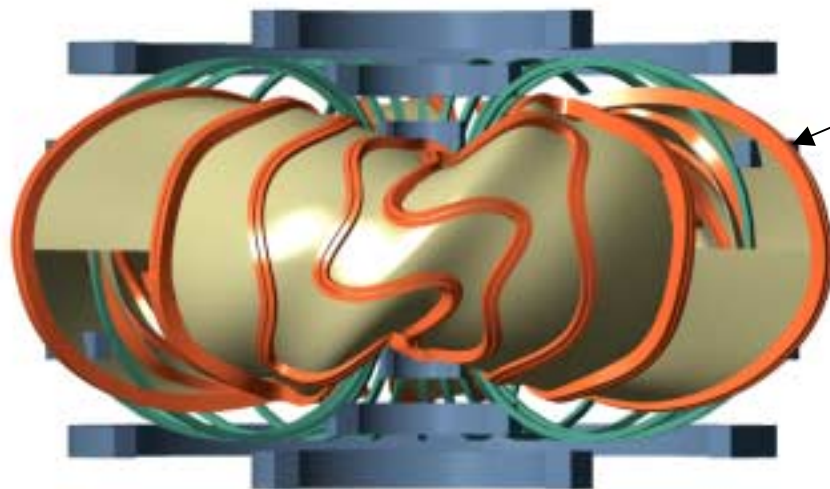




Reduce # TF Coils,
straddle sym plane



PF Coil
Interference



Status of structural design and configuration development:

- Coil shape program has been modified to give more control over orientation of I-beam at inner and outer mid-plane.
- Conformal shell is being developed, but with difficulty (surfaces are ugly, offsets and cuts do not work well).
- Investigating use of a NURBS based surface modeler that would complement Pro/ENGINEER.
- Structure modeling is tedious and depends on details of the modular coil set. Approx 3-4 weeks will be required to prepare a model for loads and stress analysis.