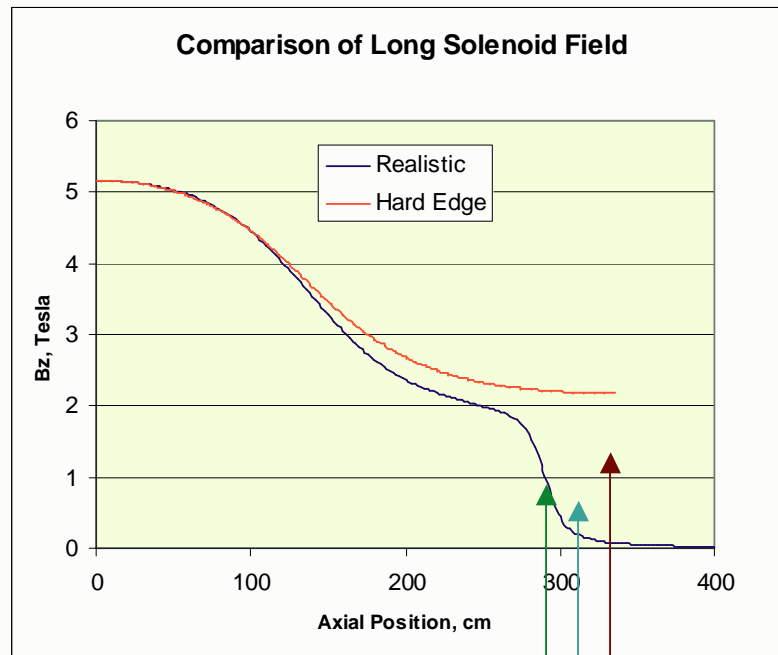


Previous Comments on Long Solenoid Magnet made at Shelter Island



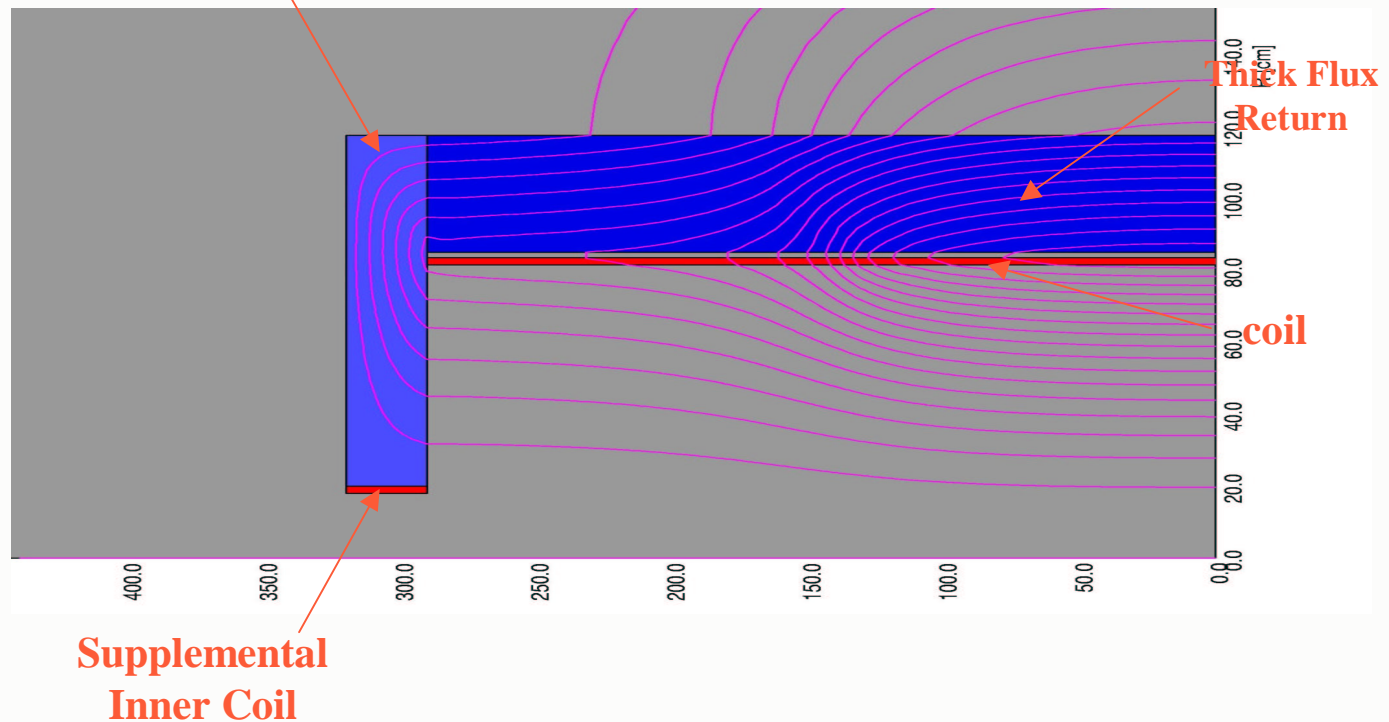
End Plate
Dipole End Clamp
Dipole Magnet Starts

- The end plate effectively separates the solenoid field from the dipole.
- Radial fields are present only in the vicinity of the end plate.
- The end plate takes about 40 cm of longitudinal space.
 - Actually I have the solenoid end plate and the dipole field clamp overlapping in space!
 - We need to determine reasonable amounts of allowable space

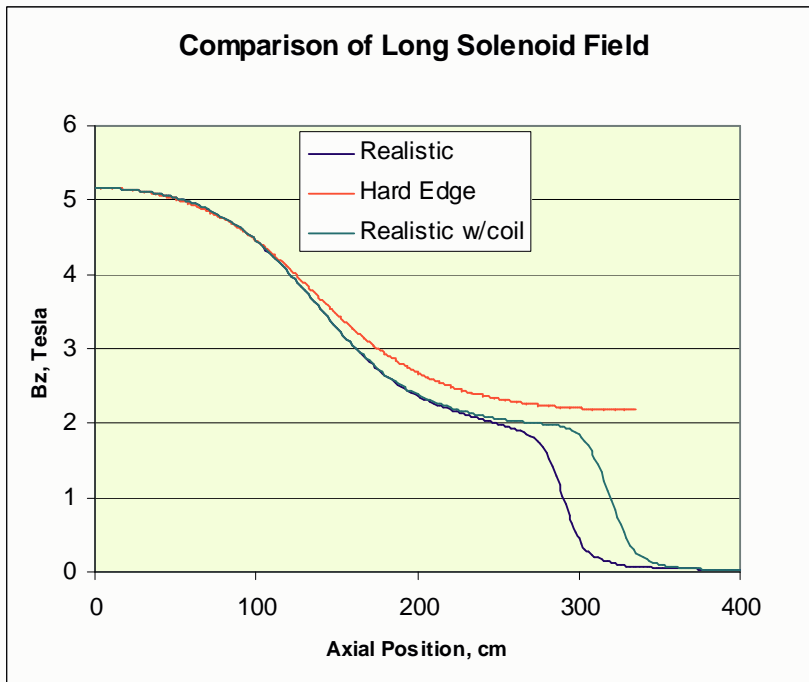
Long Solenoid Magnet

Vanadium Permadrur
End Plate

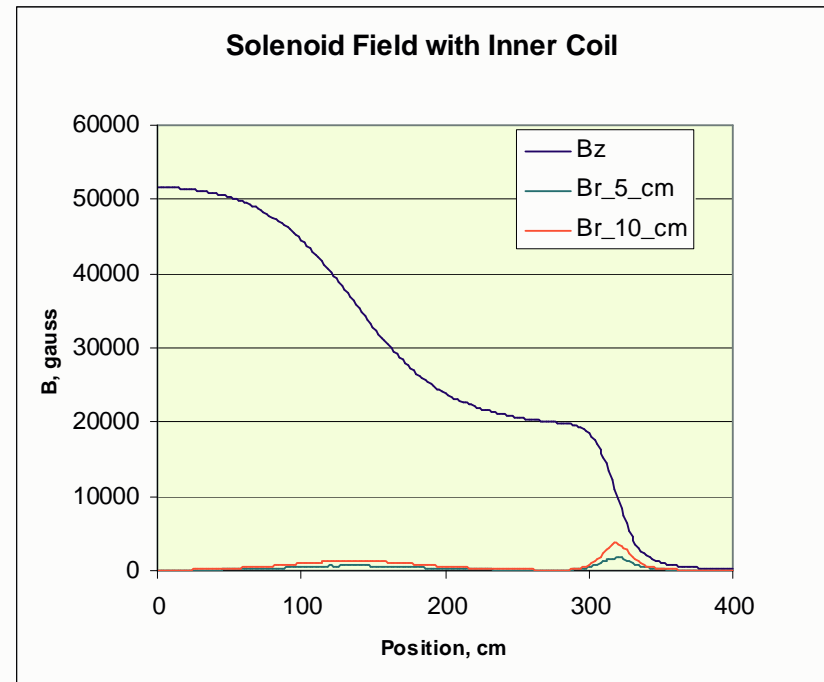
We have added an inner coil on end plates to reduce *no field* region



Fields in Long Solenoid



Comparison of B_z with and without supplemental inner coil



Axial and radial field components along long solenoid