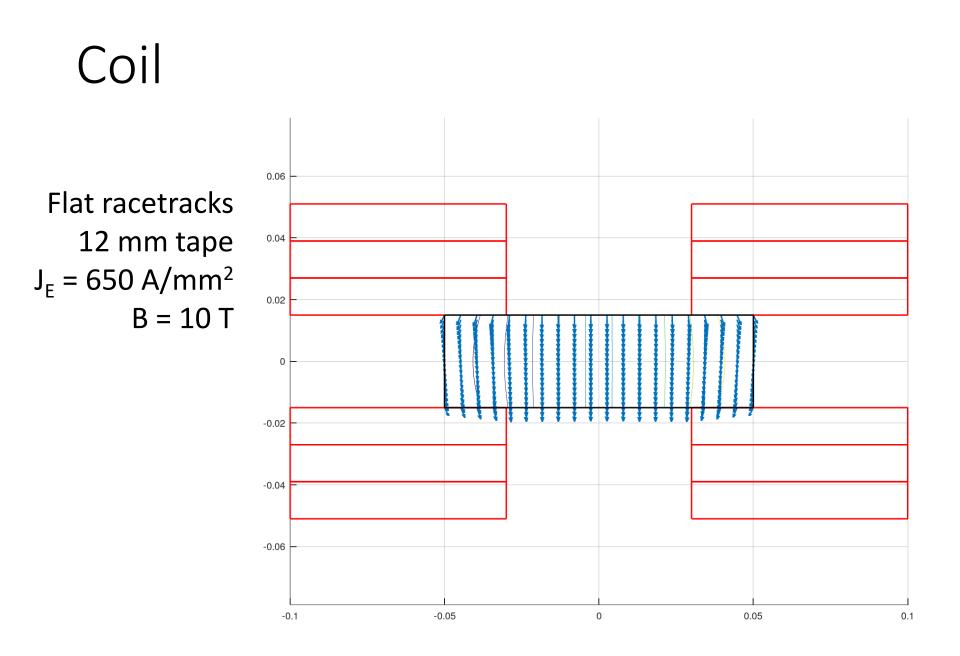
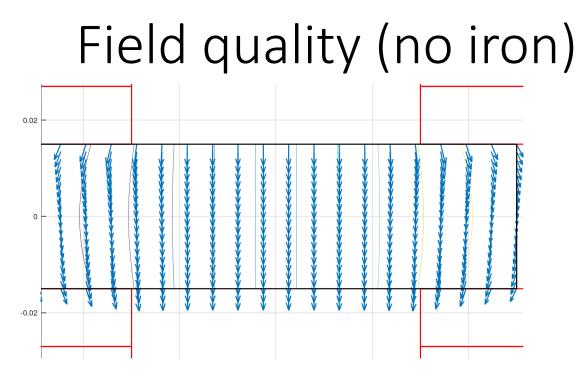
Accelerator SC dipole magnet

## Concept

- Attempt to use uniform technology through the collider complex
  - HTS windings (for robustness)
  - High current density (for cost reasons)
  - Operation at high temperature (for energy efficiency)
- Simplify magnet design, profiting from the small aperture (30 mm x 100 mm)
- Adapt coil geometry





Calculations at Rref = 10 mm B1 = 10.355 b3 = -7.2 units b5 = -1.4 units b7 = -0.03 units