

motivation

- ▶ half-scale model has an open-ended, cylindrical lead shield (axial shield)
- ▶ **goal:** reduce edge effects near the open ends
 - ▶ improves field uniformity in measurement cells
 - ▶ field uniformity required to reduce GP effect - source of error in UCN measurement
 - ▶ edge effects will be more important in the future - third-scale model is shorter, so ends are closer to measurement cells