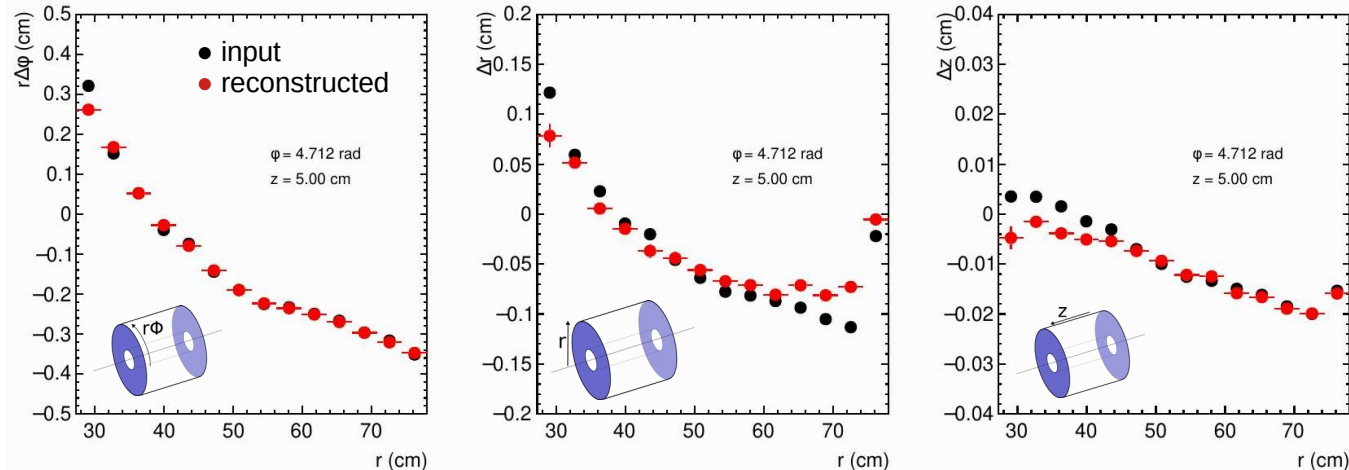


TPOt and track based distortion reconstruction

- Realistic TPOt detector implemented in GEANT4 with correct detector position, size and pitch
- Ability to reconstruct beam-induced space charge distortions in TPOt acceptance has been verified



Limitations:

- assumes that static distortions have been reconstructed (direct laser) and subtracted
- valid in TPOt acceptance only. Needs central membrane reconstruction to extrapolate to full acceptance
- remaining differences along r and z being investigated (time scale: few weeks)
- uses GENFIT. Slightly worse performances with ACTS, being investigated (time scale: few weeks)

