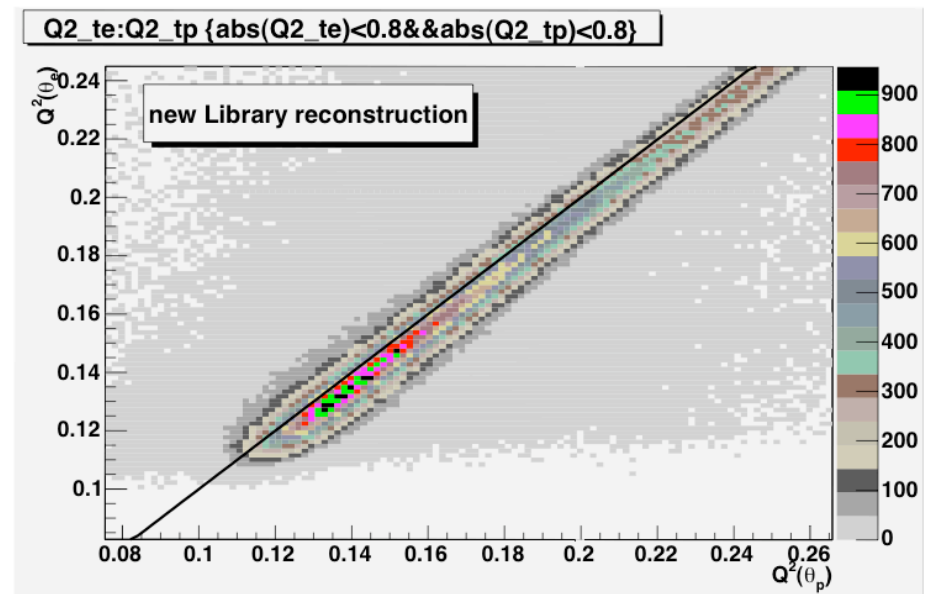
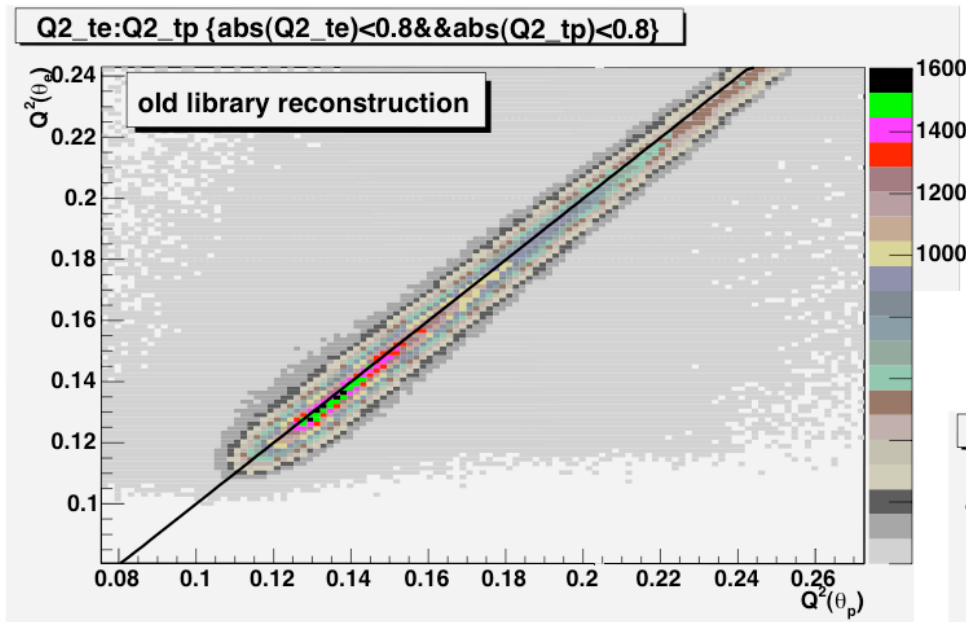


$Q^2(\theta_e)$ vs. $Q^2(\theta_p)$ comparison

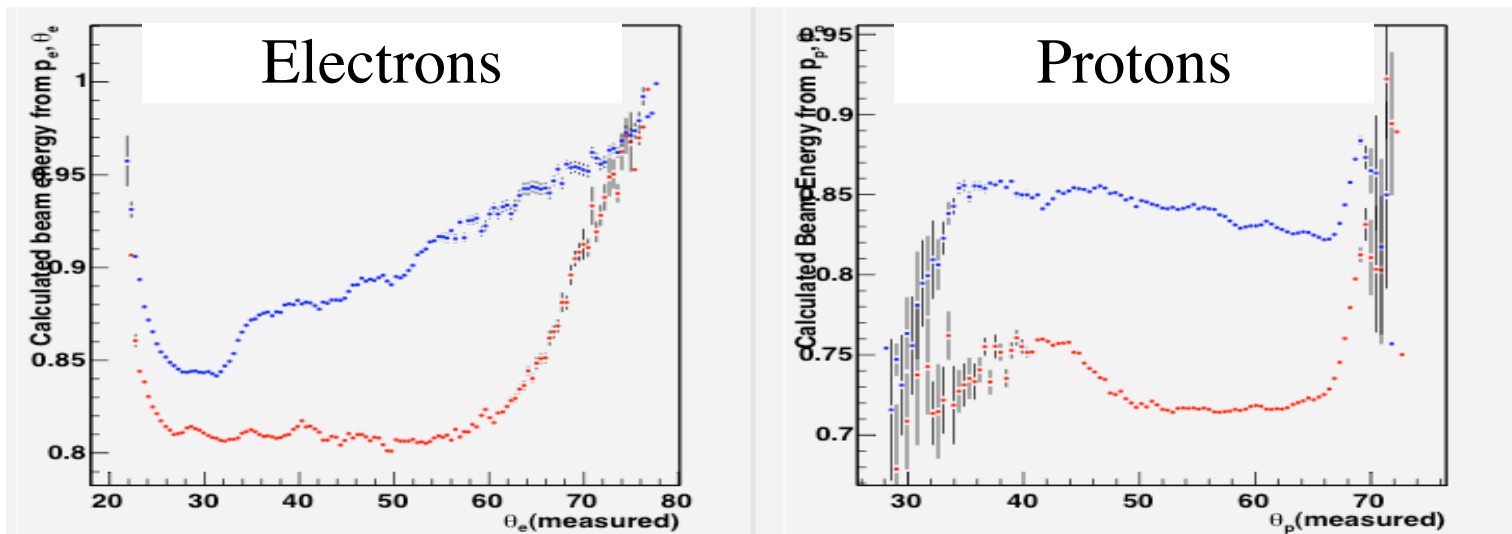


Beam Energy calculations

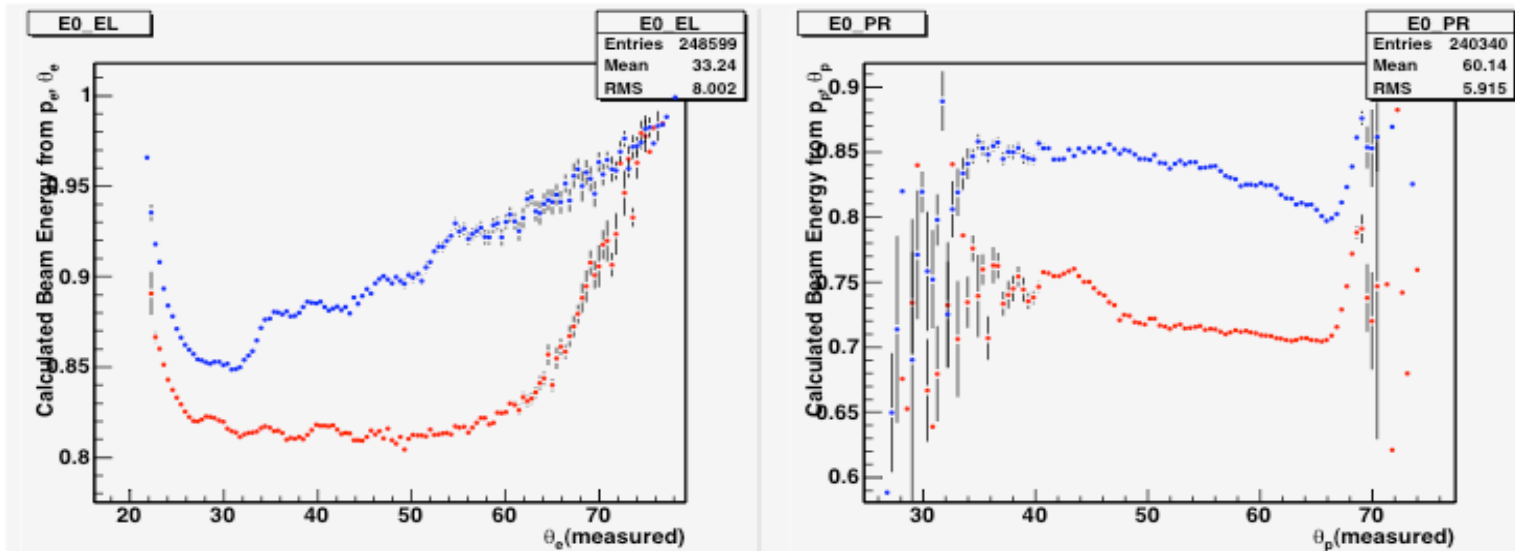
RED: Electron Left

BLUE: Electron Right

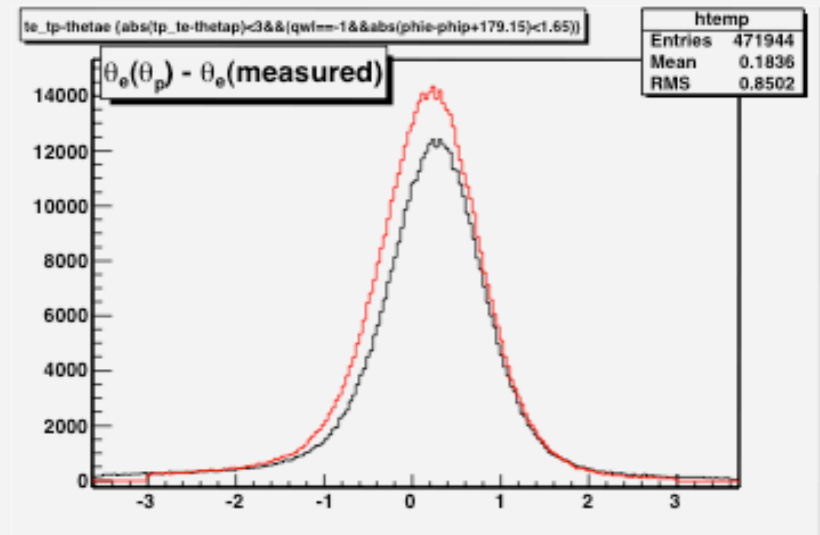
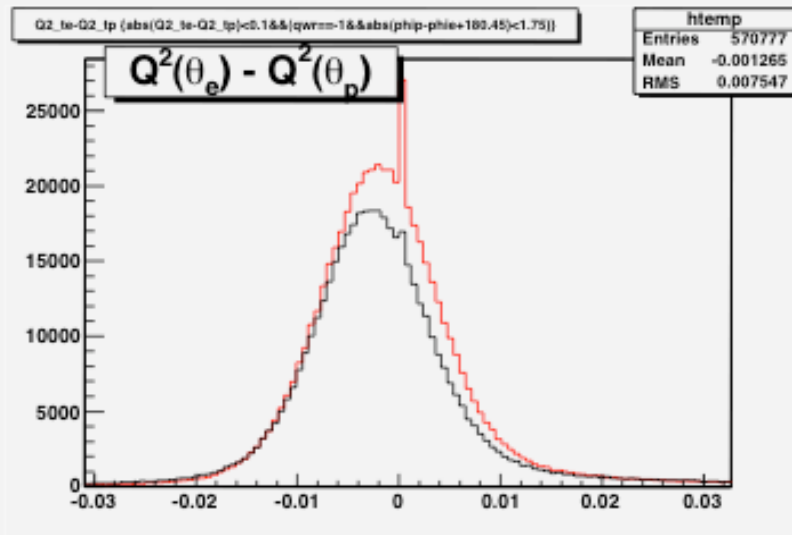
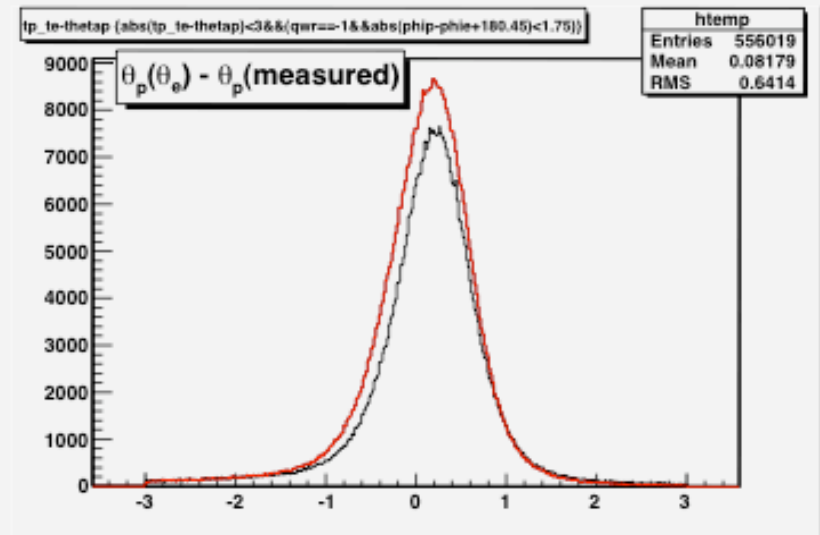
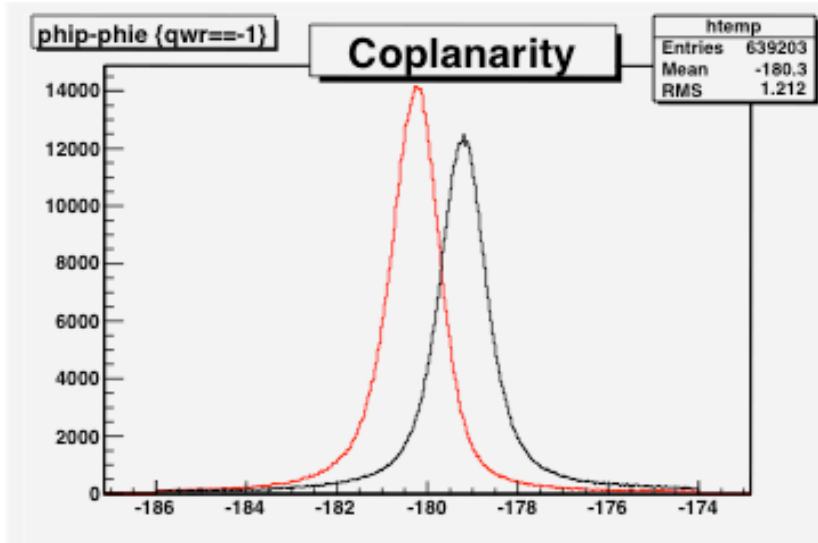
Old



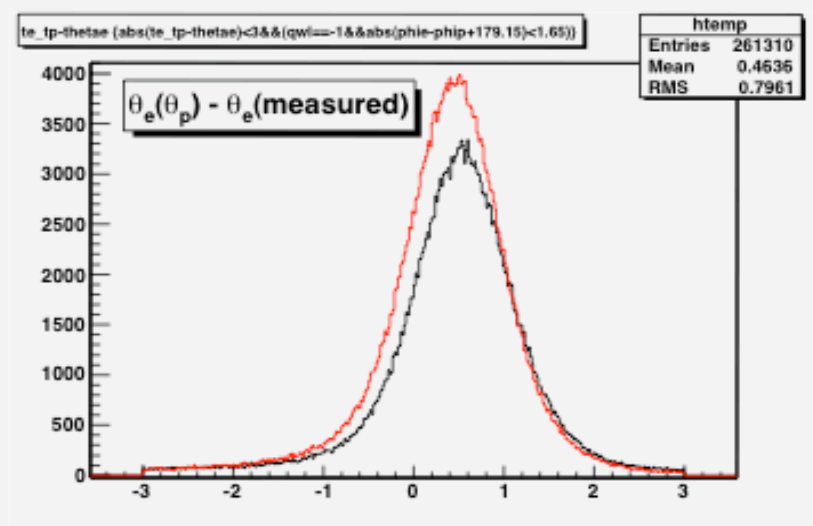
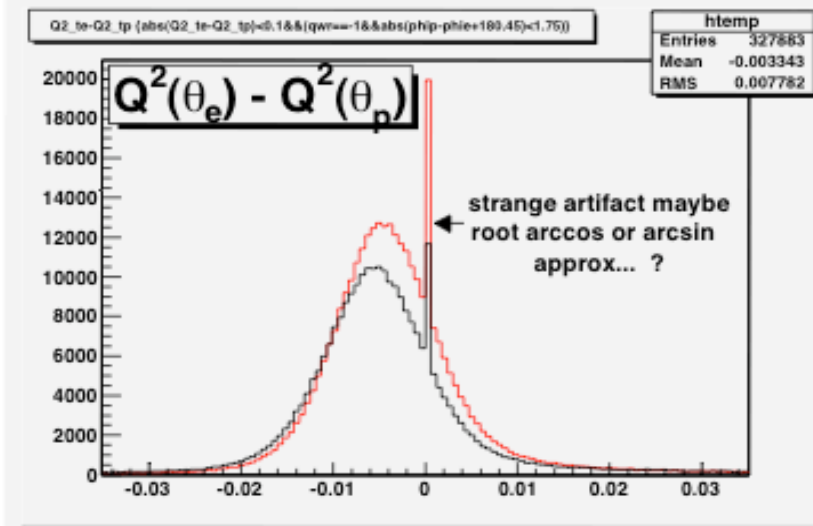
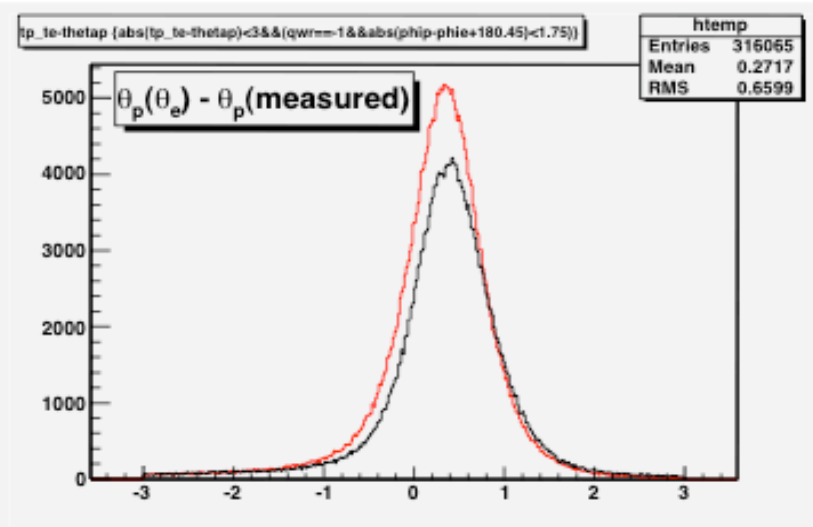
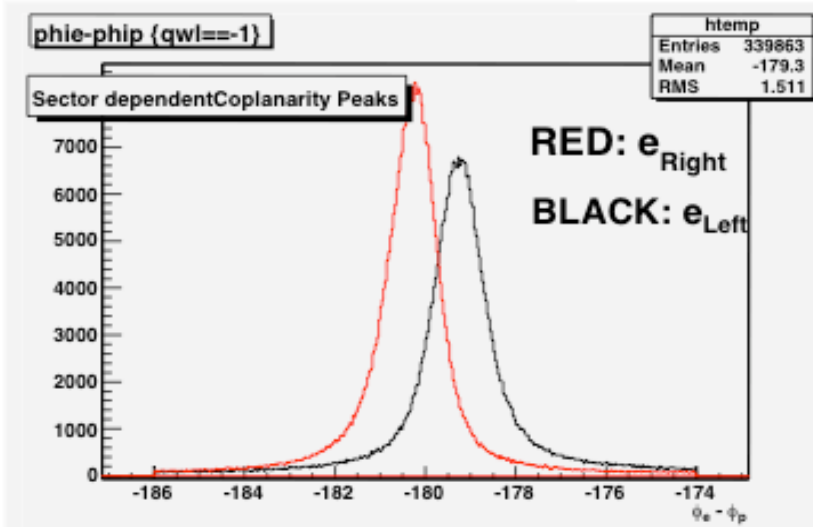
New



Old Crunch

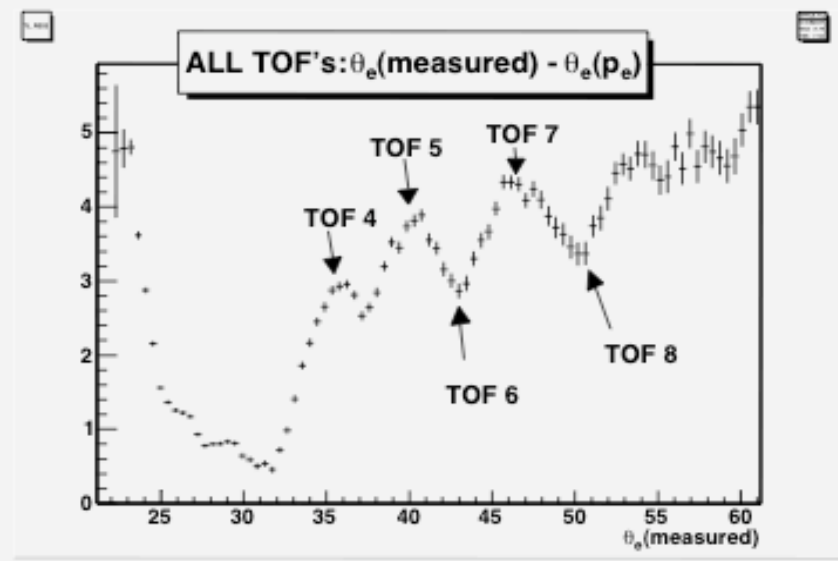
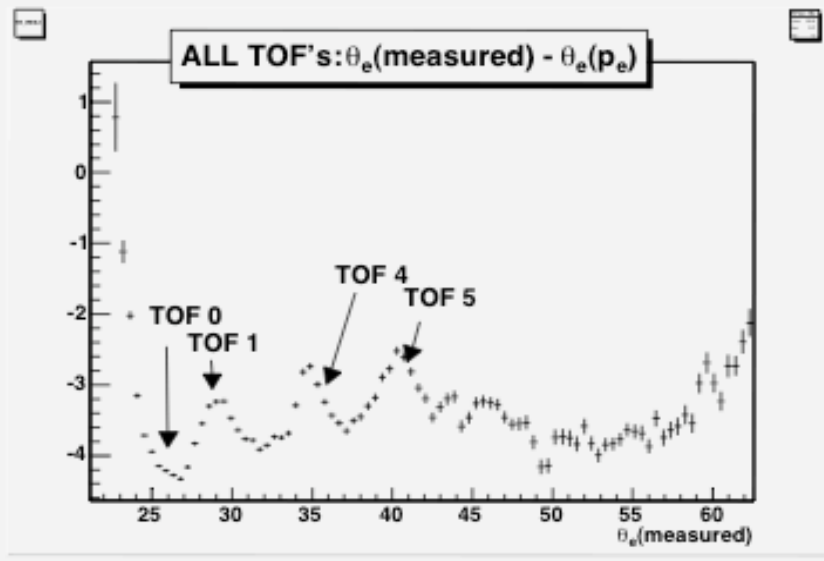
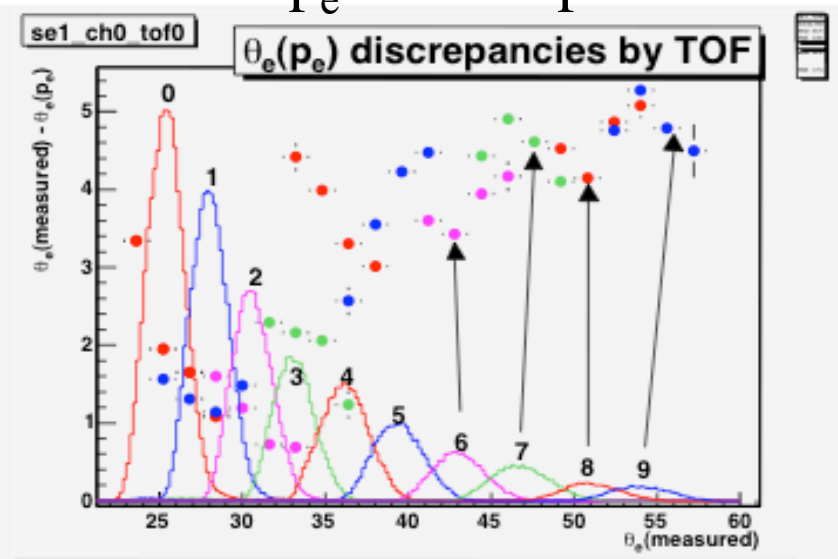
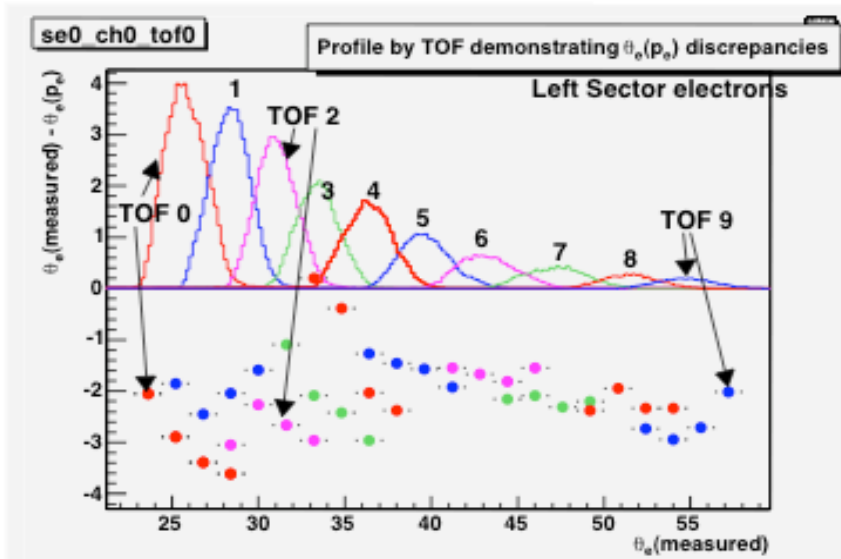


New Recrunch



Old Crunch

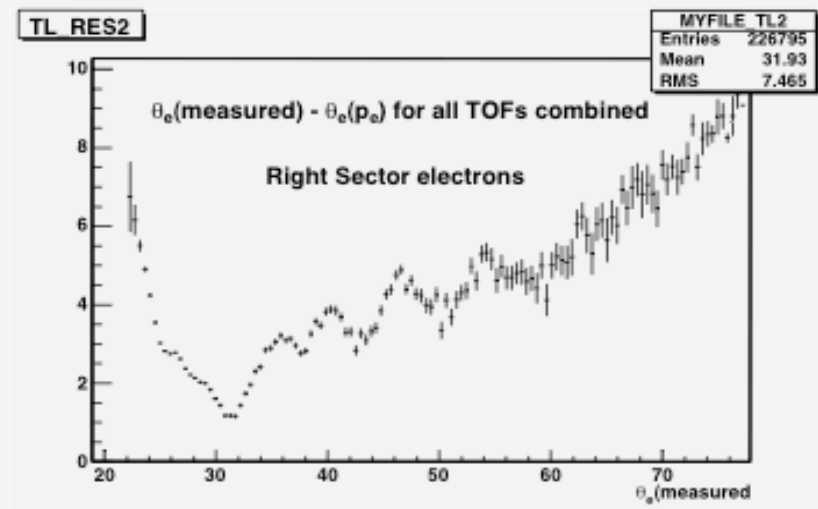
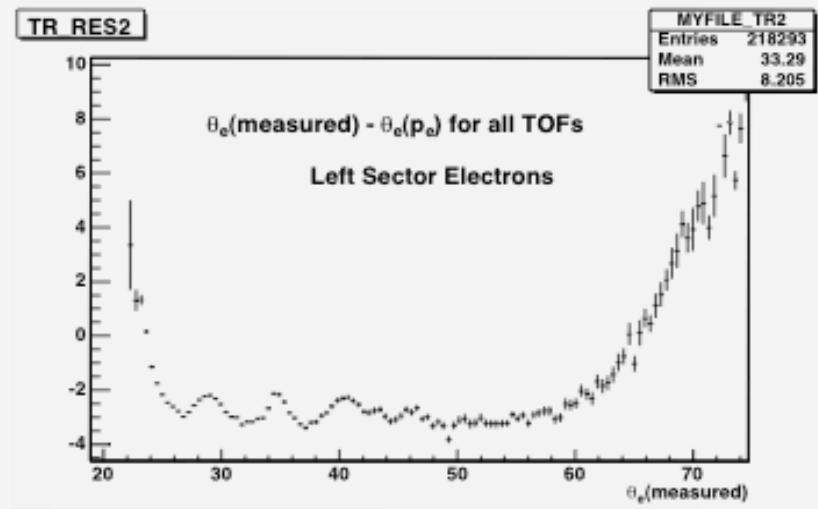
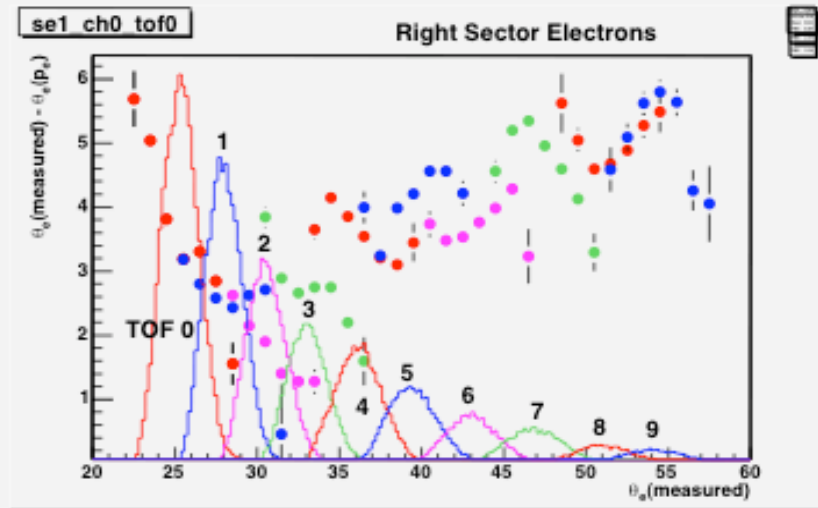
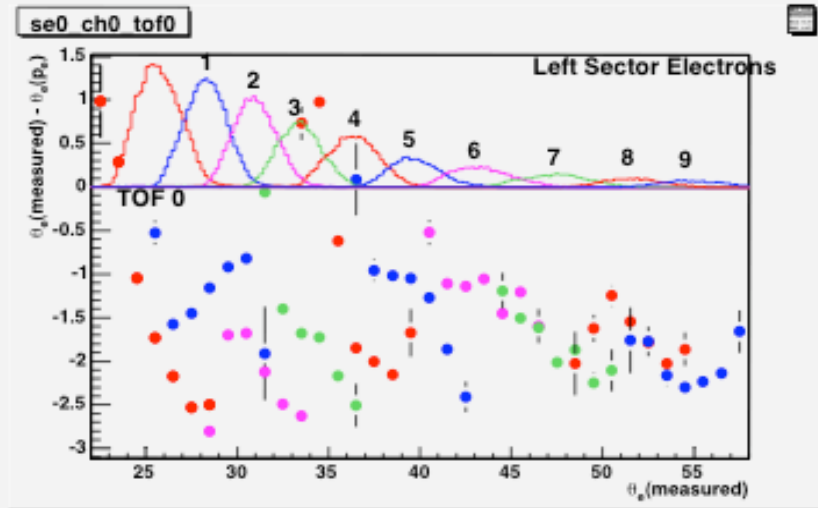
Shifts are caused by momenta used in calculations. p_e TOF-dependent??



New Crunch

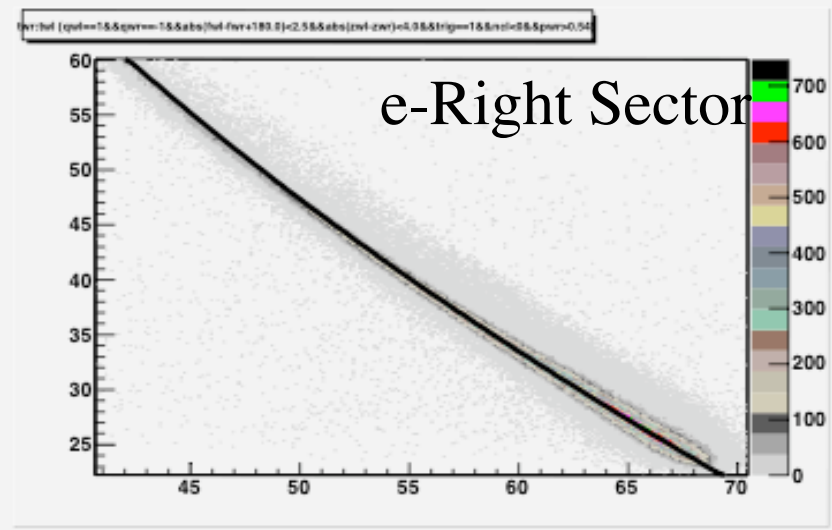
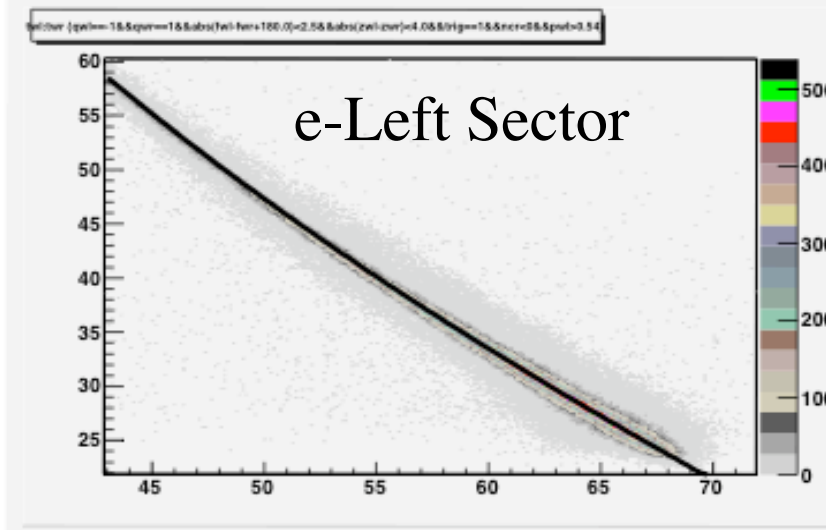
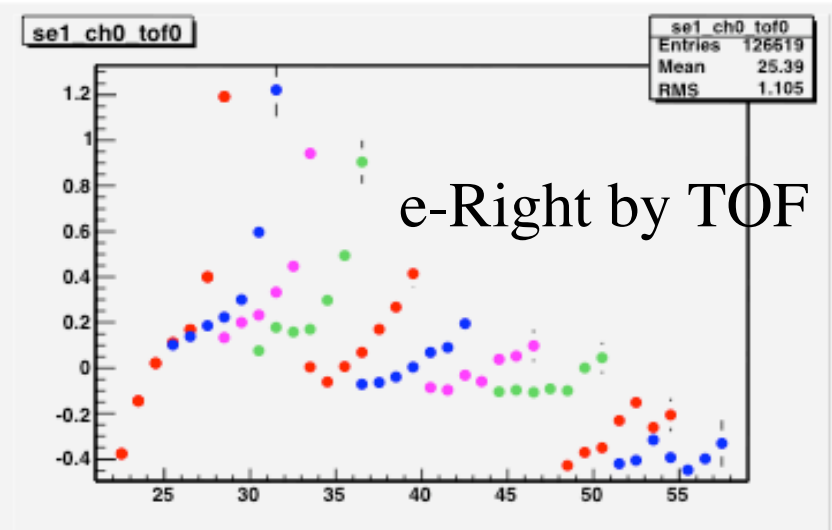
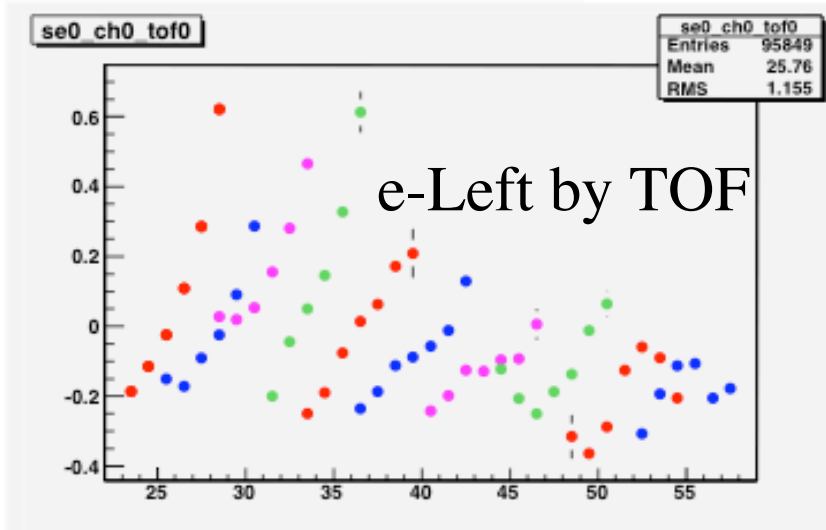
Shifts still apparent...

Next slide will show why I conclude a TOF dependency in momentum calculations



Old Crunch

Similar to above plots, this time: $\theta_e(\text{measured}) - \theta_e(\theta_p)$ vs. θ_e
Same variation over θ_e per TOF. Looks nothing like $\theta_e(p_e)$



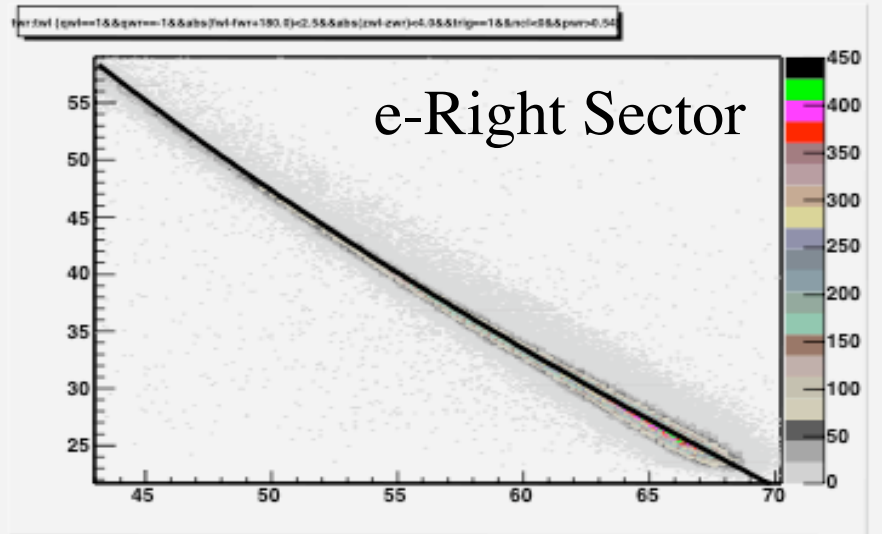
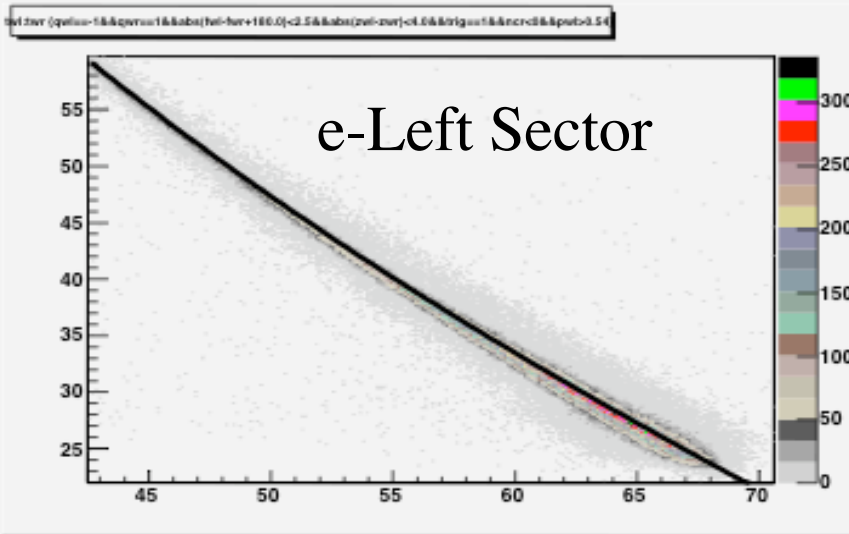
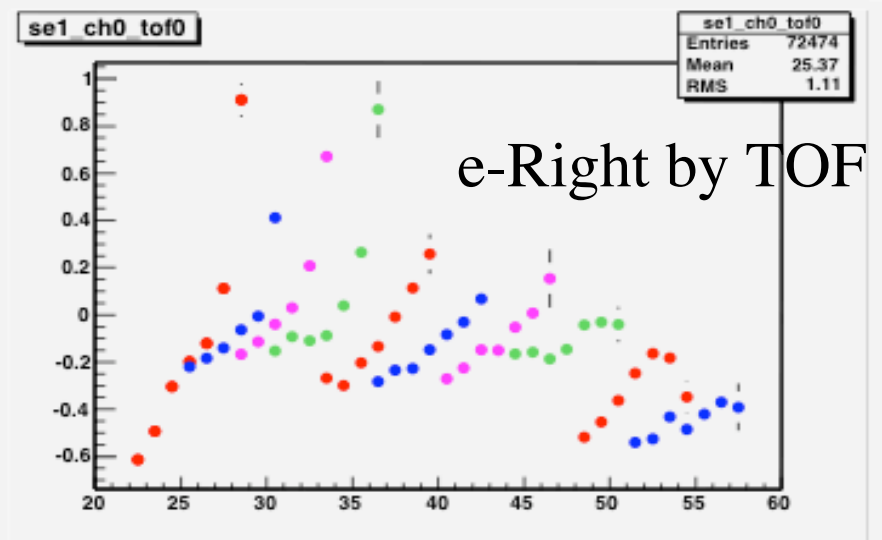
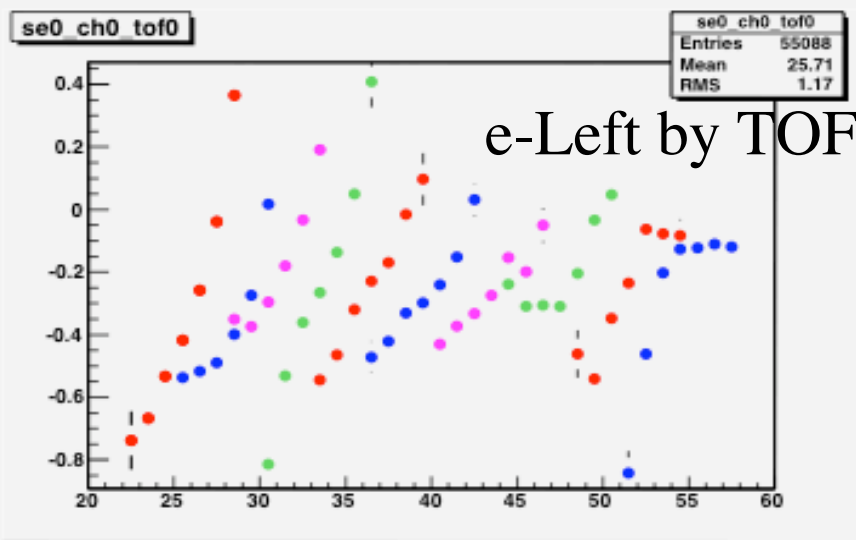
θ_e vs θ_p with Theory (great agreement)

New Crunch

Again: $\theta_e(\text{measured}) - \theta_e(\theta_p)$ vs. θ_e

All values dropped.

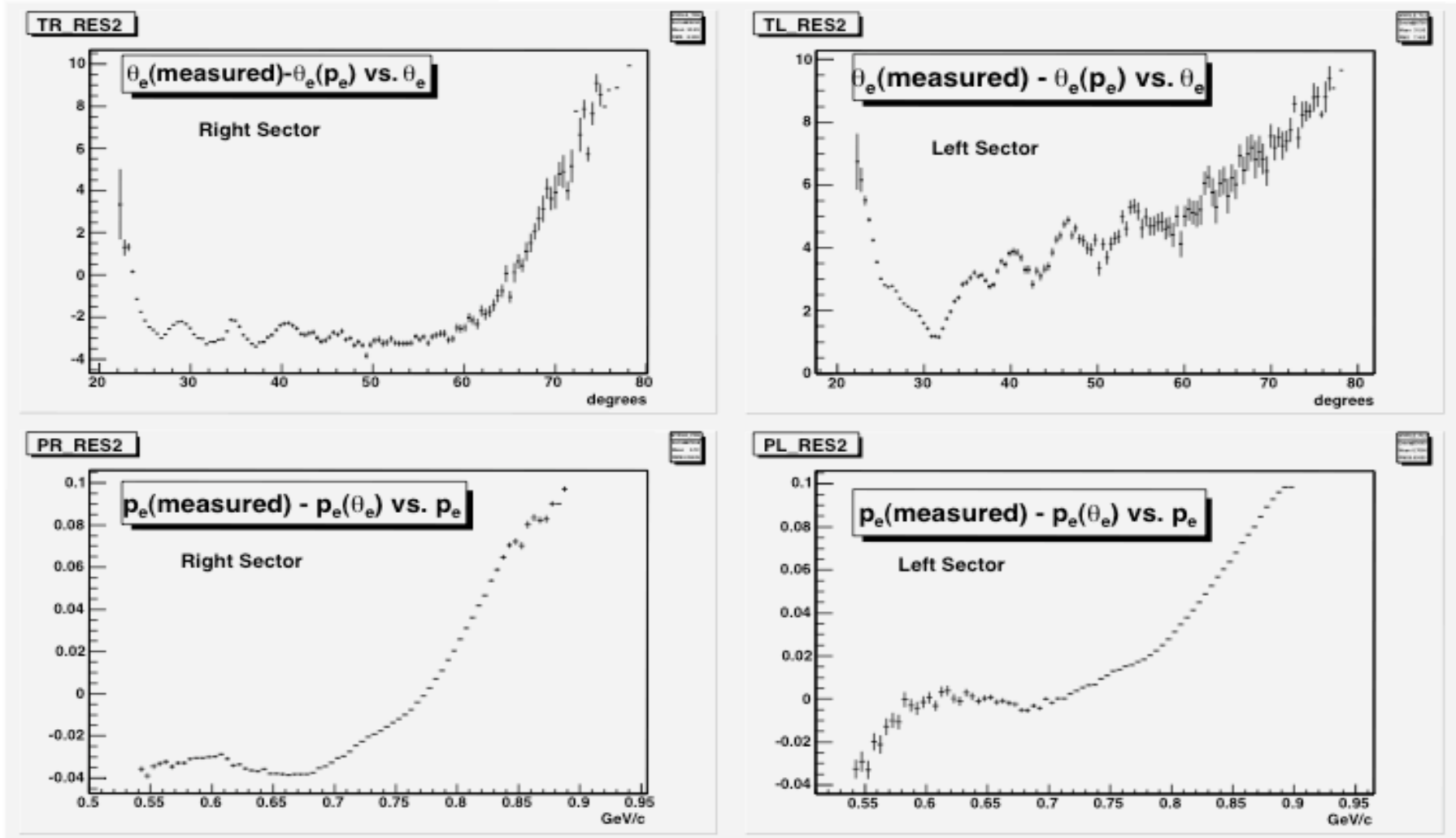
Each TOF shows same variation in $\theta_e(\theta_p)$



θ_e vs θ_p with Theory (slightly worse agreement-probably due to drop)

New crunch

- Major conclusion would be smoothness of all functions of θ .
- Function of momentum show large fluctuations.
- No major difference between old and new values here.



New Crunch

- Much Smoother $\theta(p)$ graph as compared to electron above.
- Left sector θ and p look great from 40-67 degrees.
- Also reconstructs beam energy well.

