

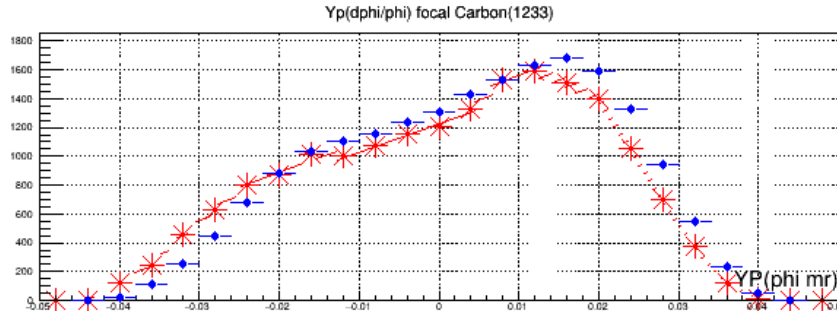
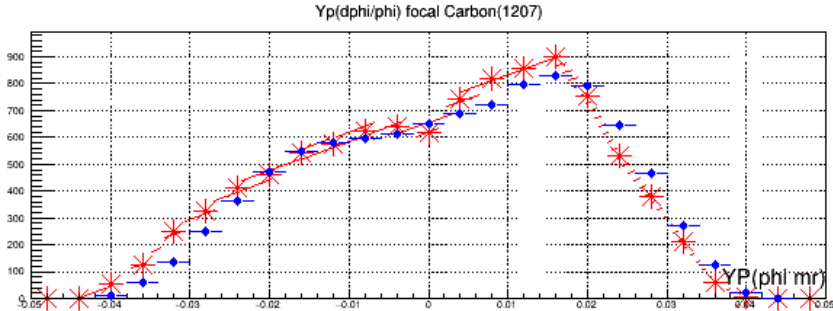
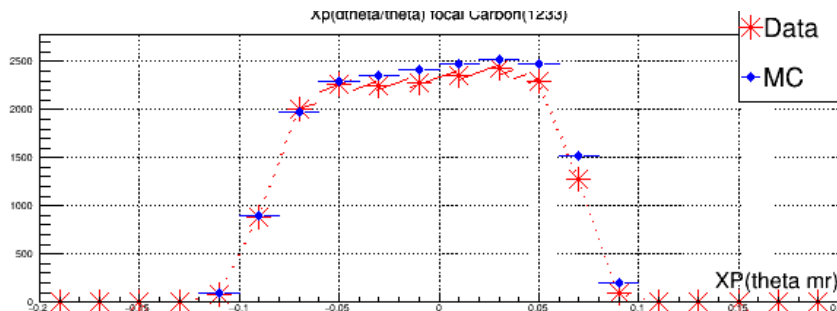
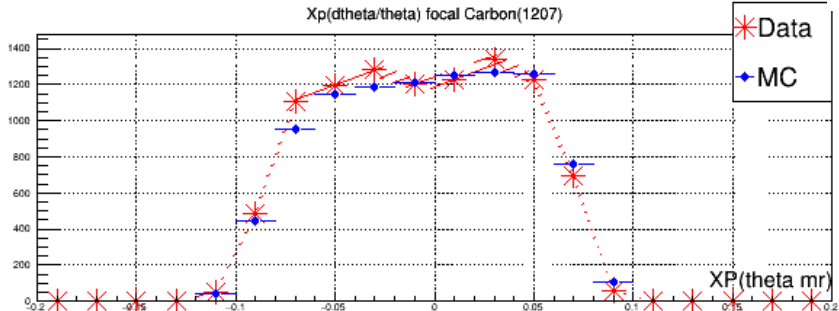
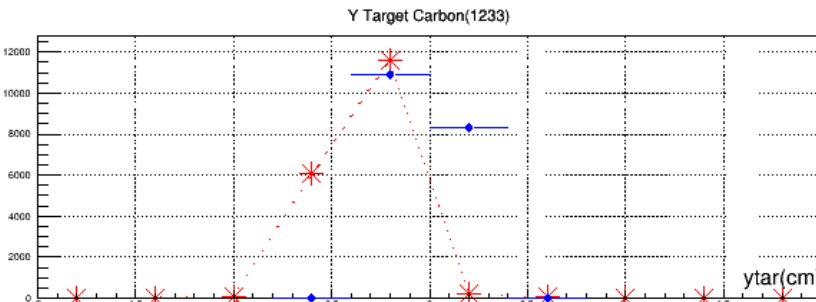
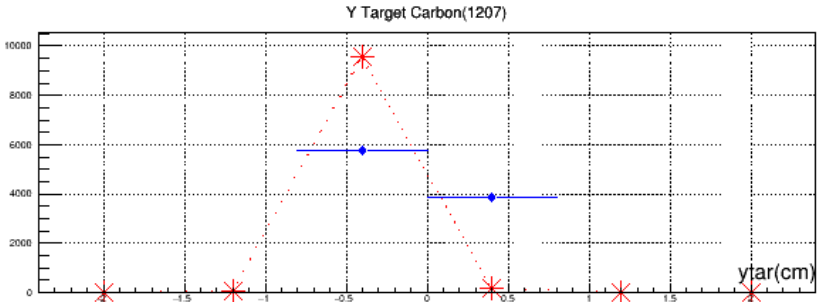
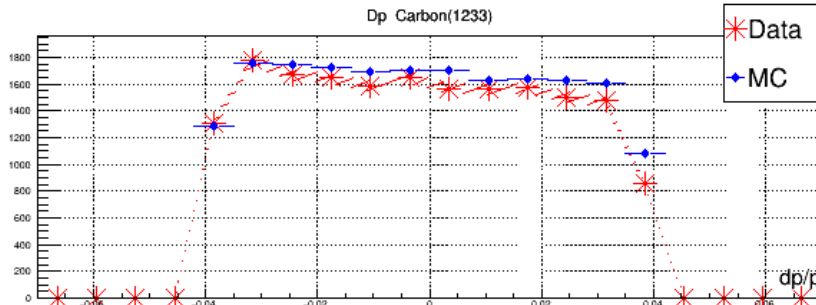
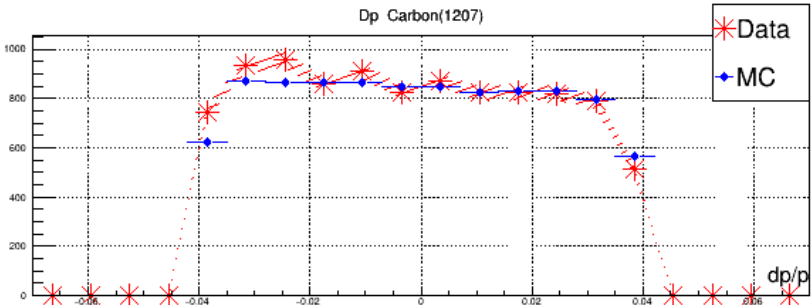
# Monte Carlo to Data comparison

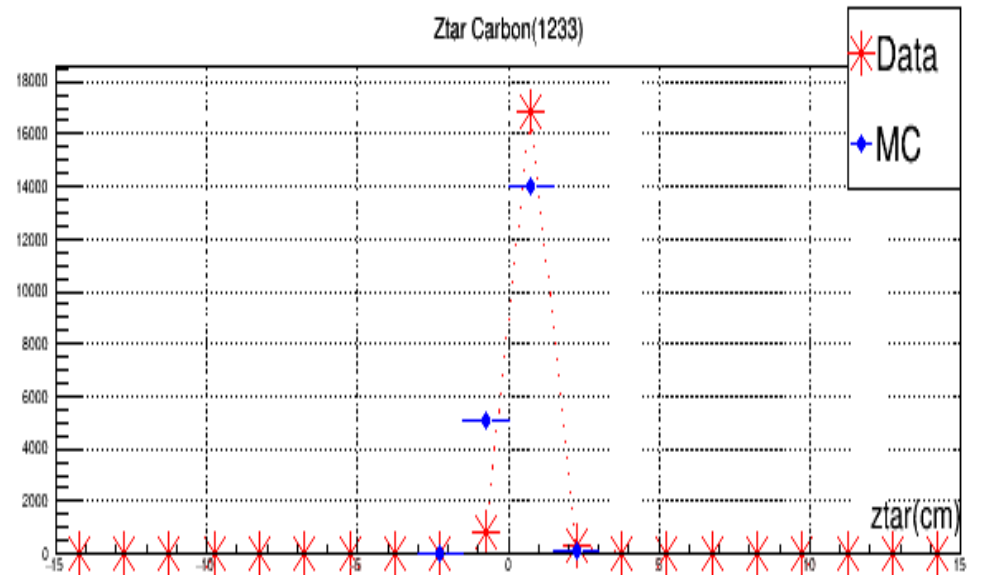
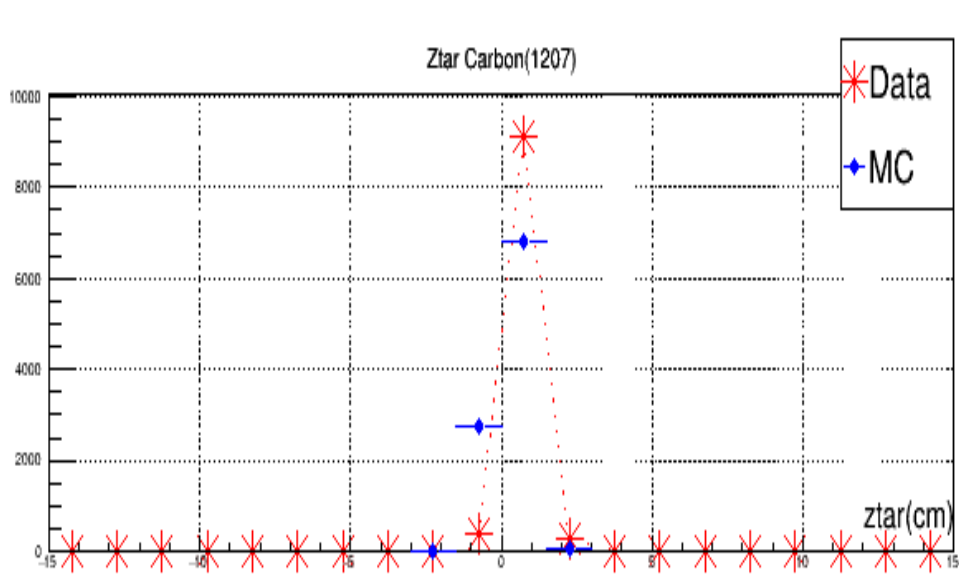
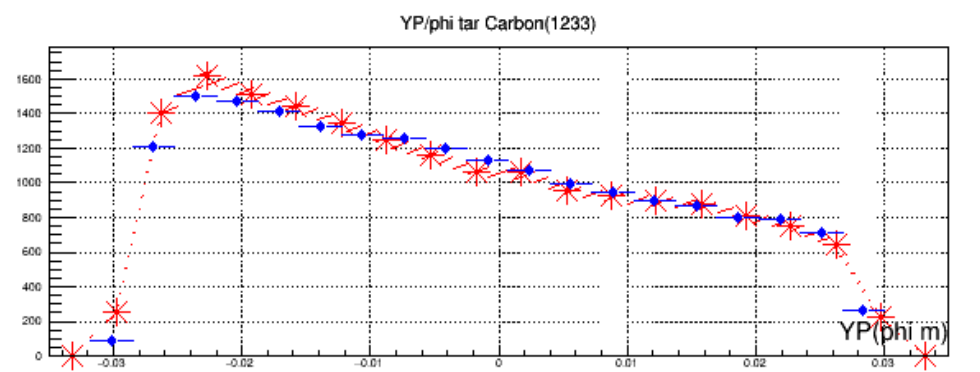
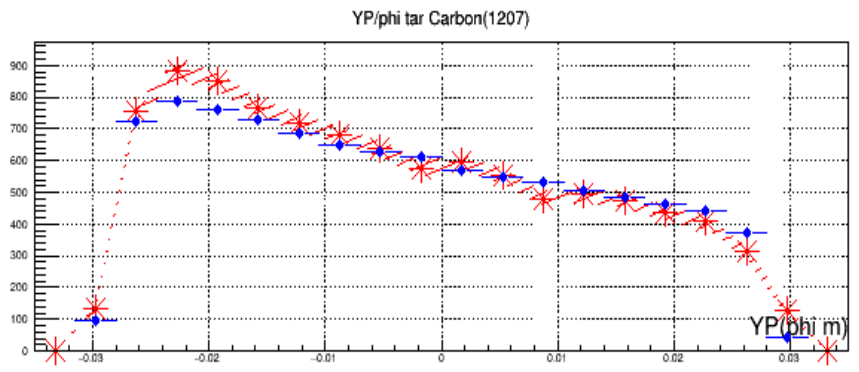
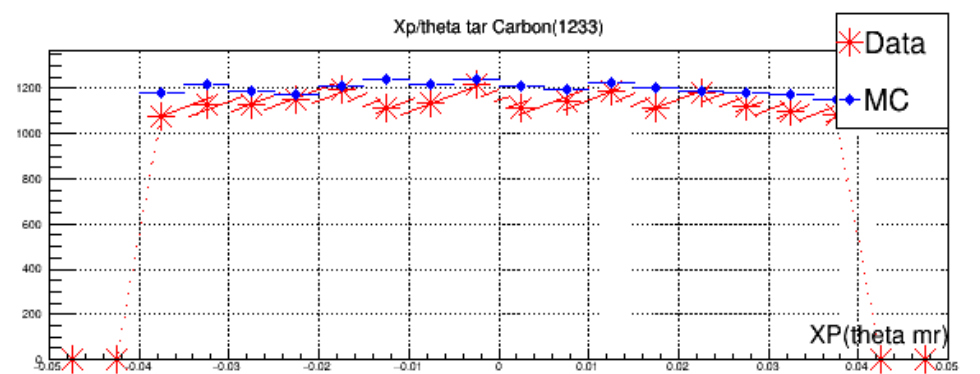
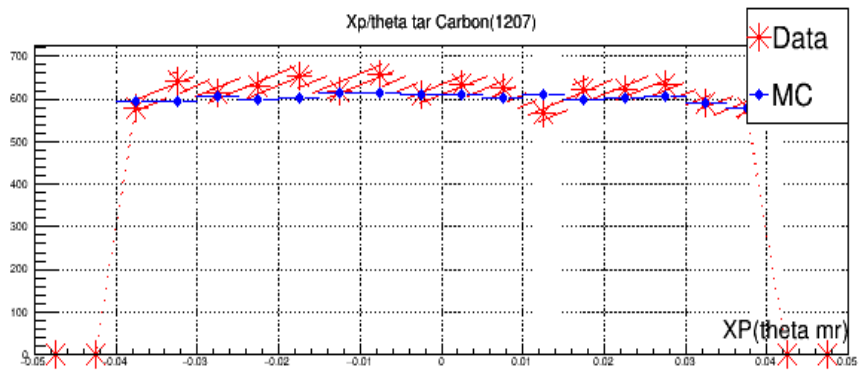
- $\text{abs}(y_{\text{ptar}}) \leq 0.03$
- $\text{abs}(x_{\text{ptar}}) \leq 0.04$
- $\text{abs}(z_{\text{tar}}) \leq 9.0$
- $\text{abs}(\text{delta}) < 4$
- Scaled by
- $(L.\text{cer}.\text{asum}_c > 1500)$
- $(L.\text{prl1}.\text{e} + L.\text{prl2}.\text{e}) > P0 * 0.7$
- $(L.\text{tr}.\text{beta} > 0.5)$
- $\text{fabs}(L.\text{tr}.\text{tg}_{\text{dp}}) < 0.04$
- $\text{fabs}(L.\text{tr}.\text{tg}_{\text{th}}) < 0.04$
- $(\text{fabs}(L.\text{tr}.\text{tg}_{\text{ph}}) < 0.03)$
- $(\text{fabs}(L.\text{tr}.\text{vz}) < 0.09)$

# Included into event generation

- Generate 1M events
- Set z target offset of -0.3 cm.
- **Weighting**
  - Born corrected for relative effects.
  - Luminosity of data run
  - Phase space of generated events.
  - Dead time
- Still need to include:
  - Density correction
  - Detector eff.
  - PID eff
  - Trigger eff.
- Spectrometer x,y,z offset retrieve from db\_run.dat
- Multiple scattering
- Wire chamber smearing
- Simulate energy loss for outgoing particles

# Carbon foil kin1 and kin2





# D2 kin1 #1214

