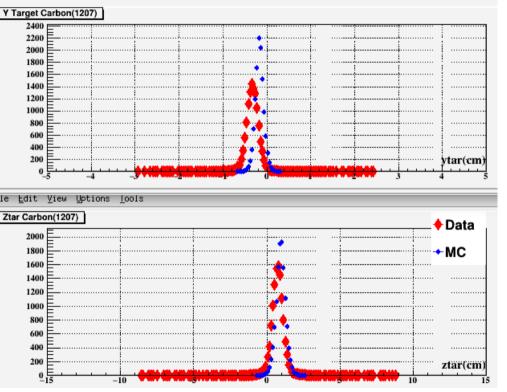
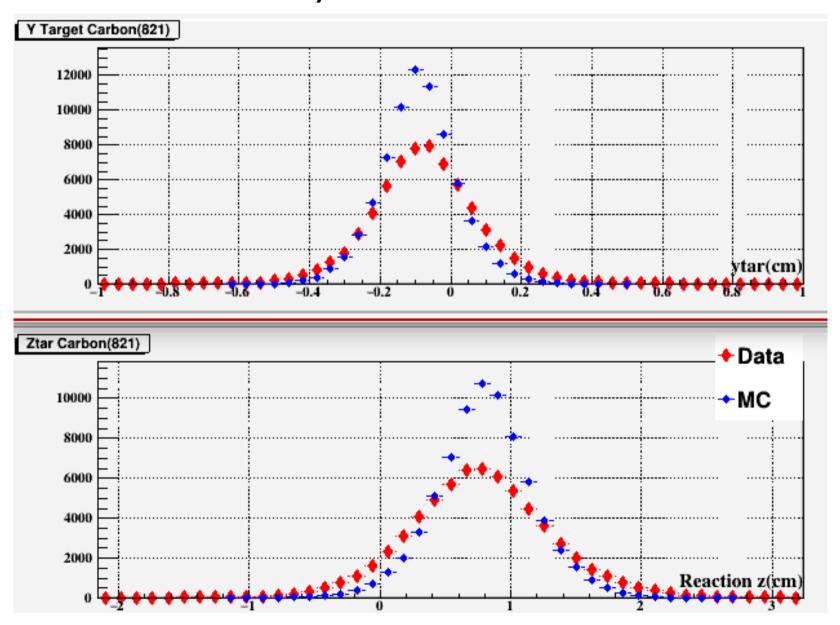
## Previous issues: Small offsets in ytar and ztar

- Roughly ztar =  $ytar/sin(\theta)$ 
  - If ztar matches close so should ytar

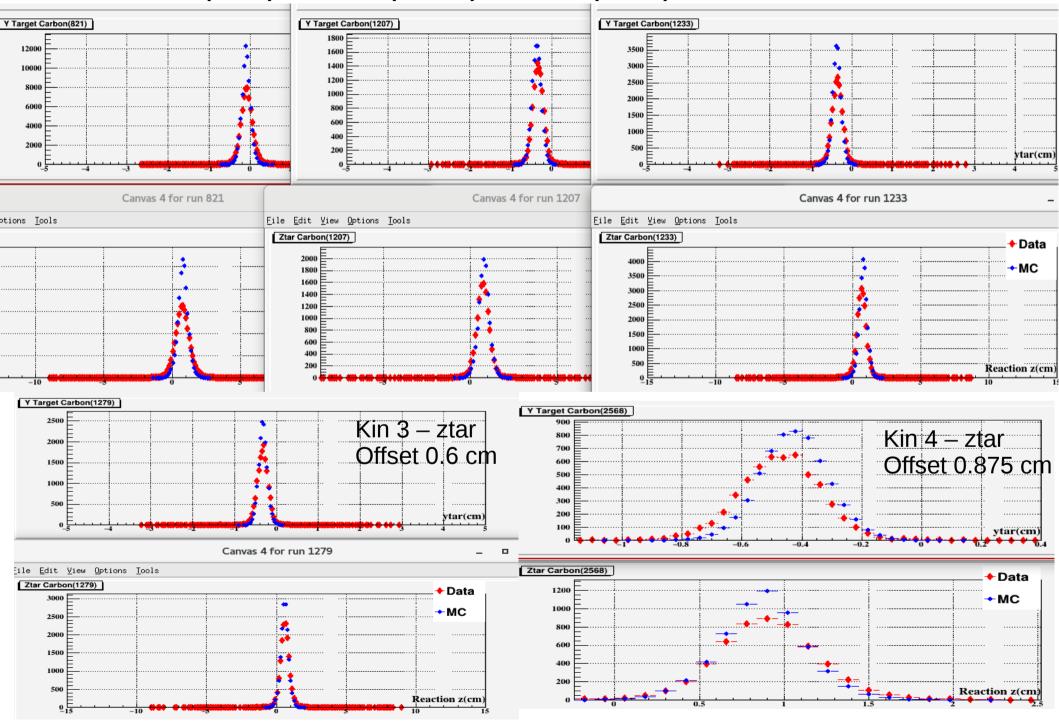


Thanks to Shujie! Found bug inside the event generator missing a contributing offset in the reconstruction of Ztar.

## Raster off, Carbon foil, p0=2.14GeV, Eb=6.14GeV, $\theta$ =17.005 from dec.



Run 821 (dec); 1207(kin 1); 1233(kin2) ztar offset = 0.8 cm



## **Moving Forward**

- Determine Y offsets for each kinematic
- Determine if the after transformer failure kinematics seem similar issue as the kin4 (2568 run)
- Update the Monte carlo with a way to implement the offset on kinematic basis.