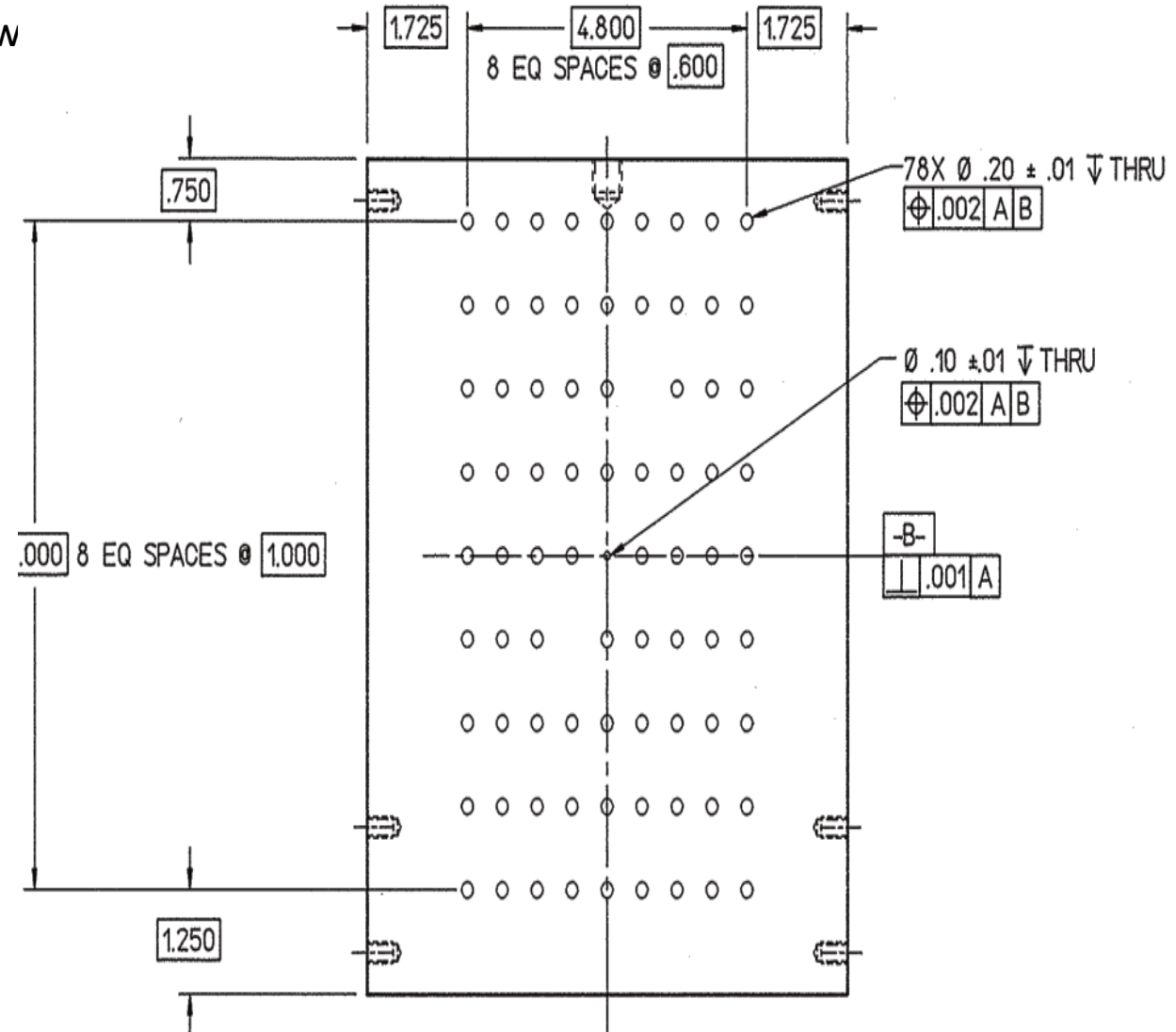


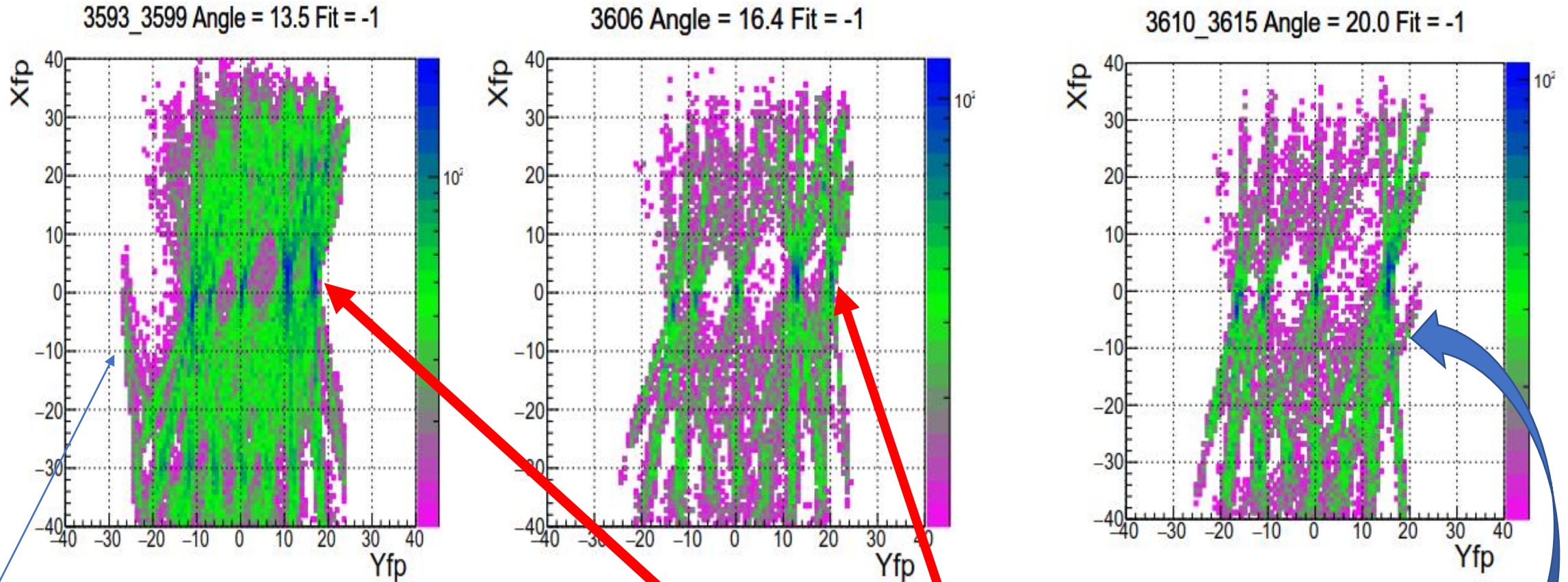
# Optimize HMS polarized target

- HMS Data taken with foils at 20,13.34,0,-20 and -30 (beam w
- HMS 13.5 degrees with runs 3593-95 and 3599.
- HMS 16.4 degrees with run 3606.
- HMS 20.0 degrees with runs 3610,3612-15.

- Select ytar vs delta cut for each foil.
- Set cuts on yfpf vs yfp and xfpf vs xfp for series for delta regions.
- Determine HMS mispointing at each angle assume center foil at ztar = 0.
- Fit all angles at once.
- To do
  - Need to include 30 deg A1n optics data.
  - More data at 20deg with foils at -13.34,-6.67,0 6.67,13.34,20



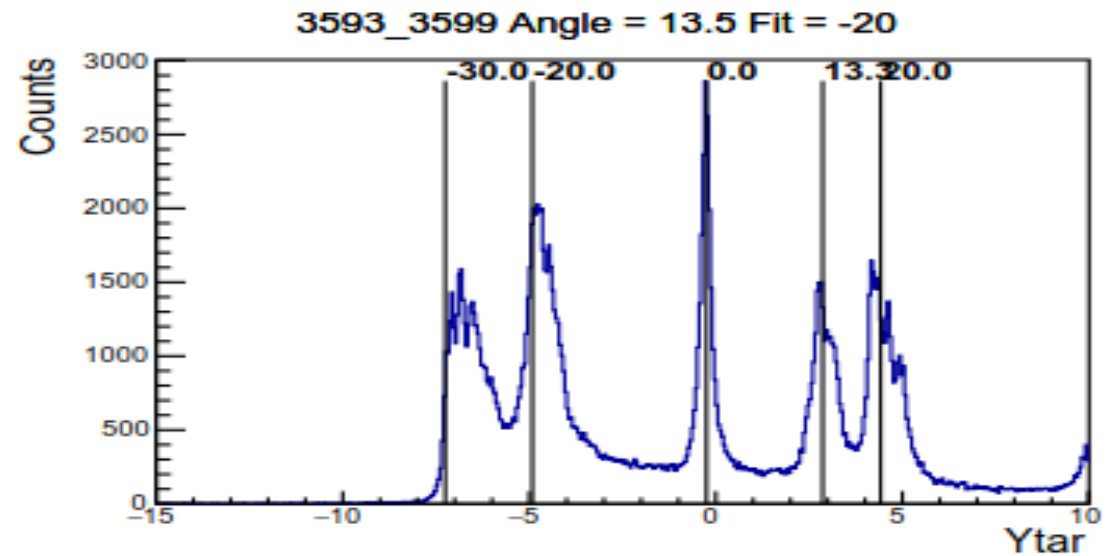
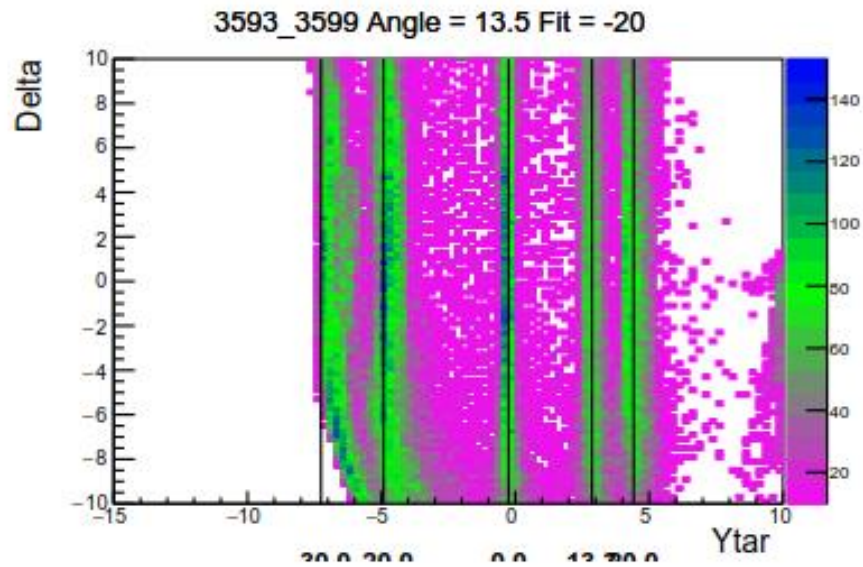
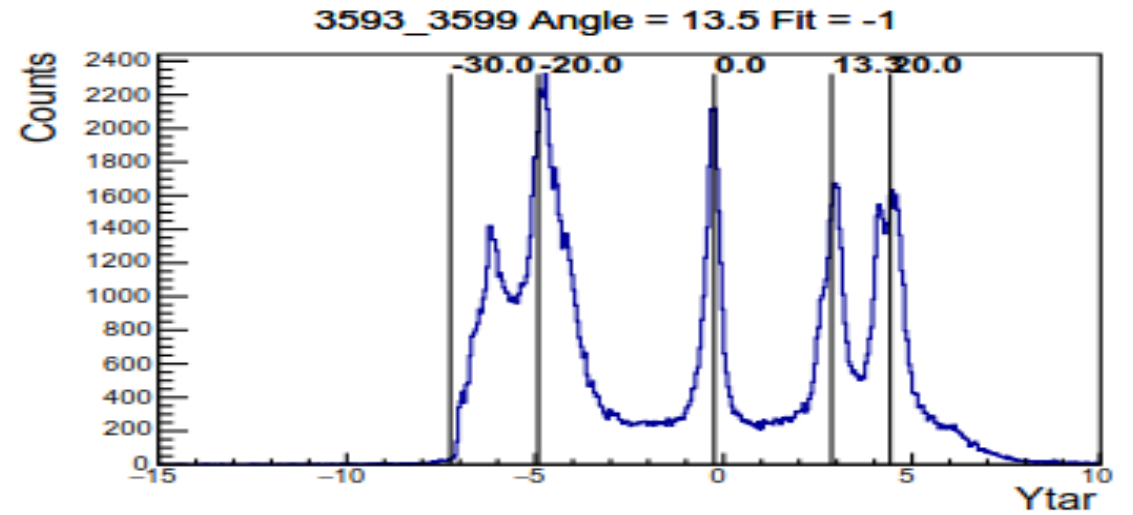
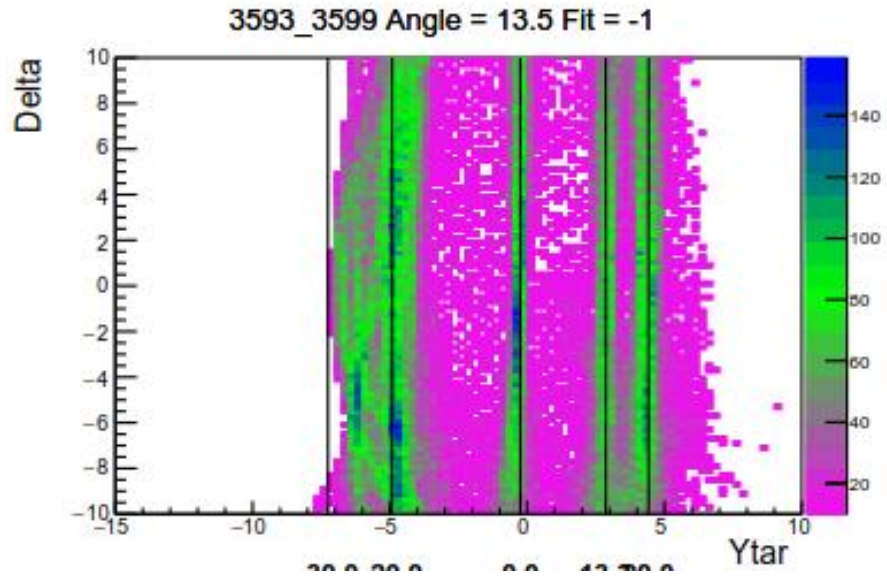
# Focal plane distributions



Downstream  
Beam  
entrance or  
flange?

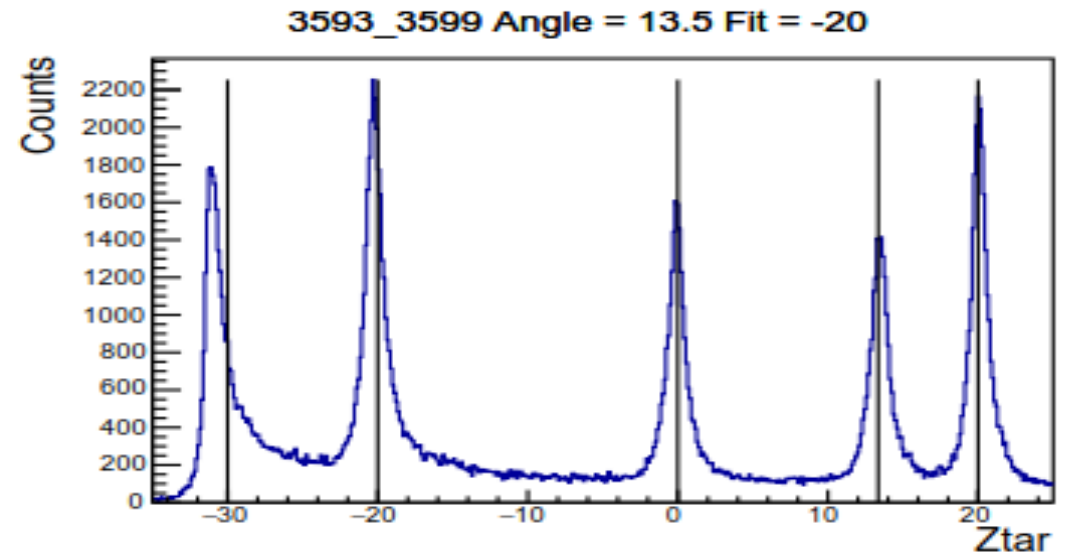
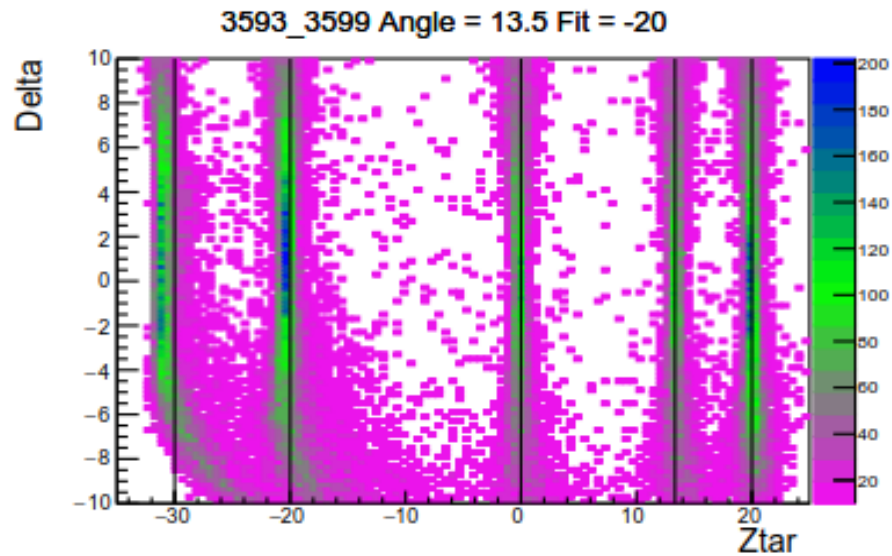
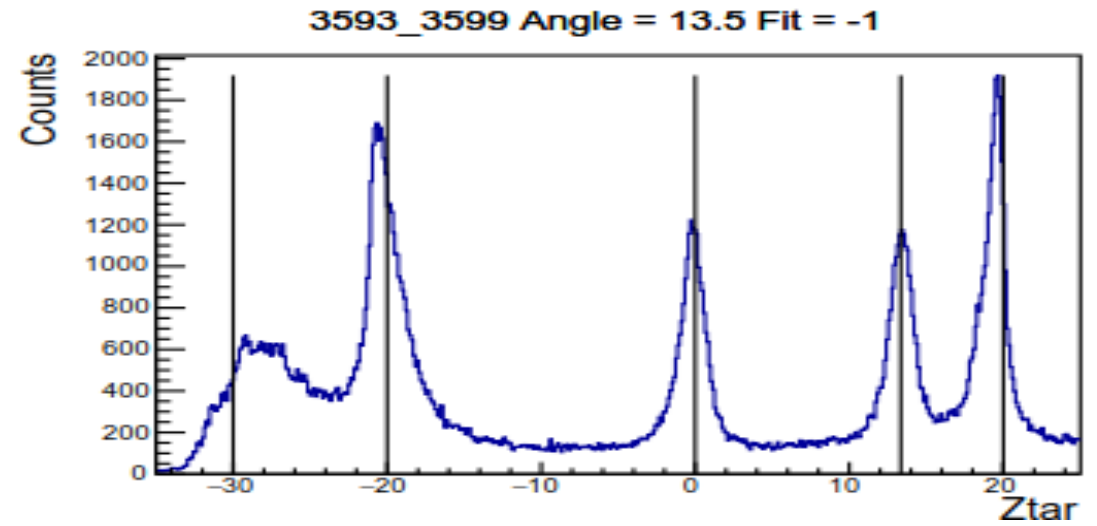
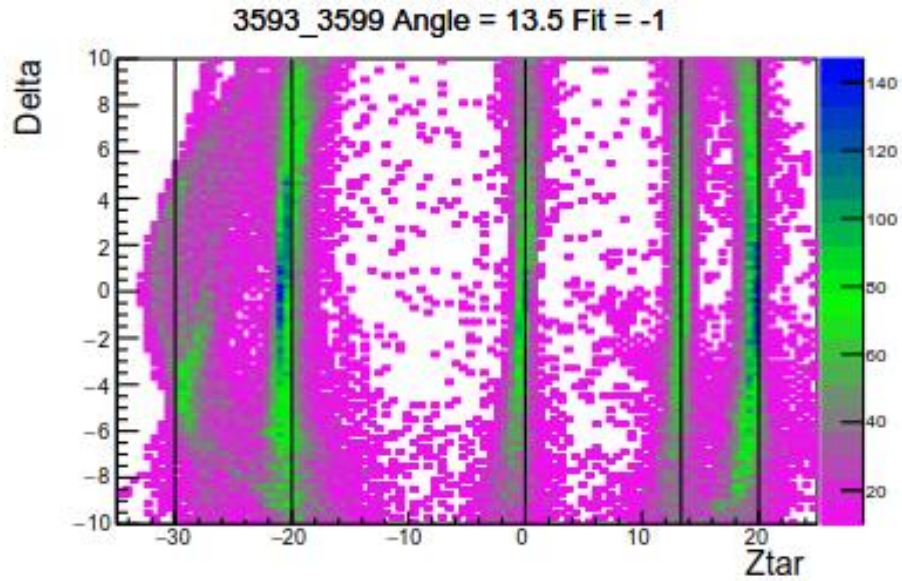
- Gradually the upstream beam window moves off the focal plane with increasing HMS angle
- At HMS =20 degree, see a little of the upstream beam window but focus is off focal plane.
- The HMS DC width is about +/-25cm

# HMS 13.5 degrees. Ytar Comparison before (Fit=-1) to after (Fit=-20)

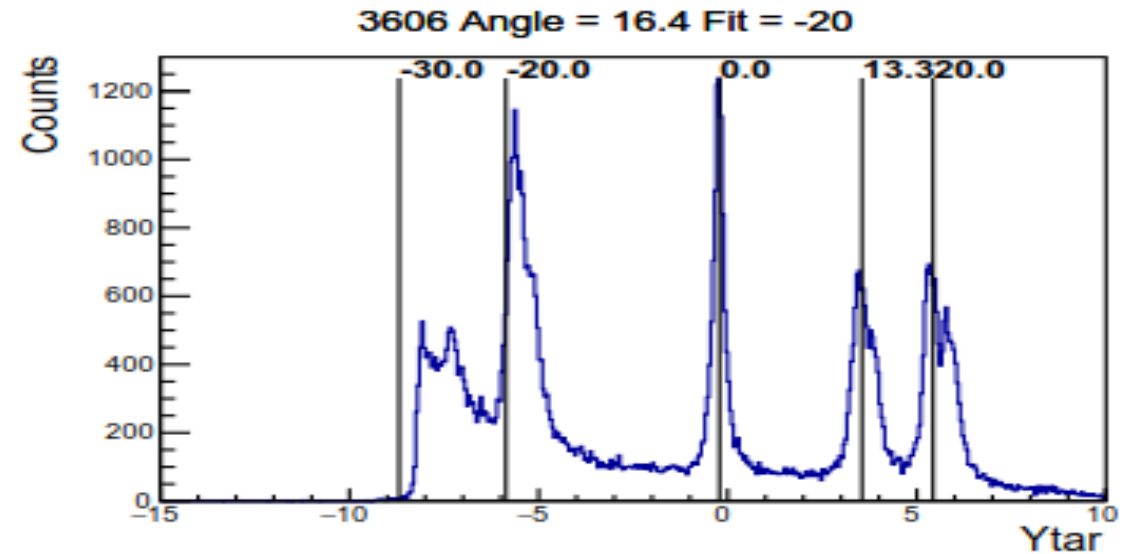
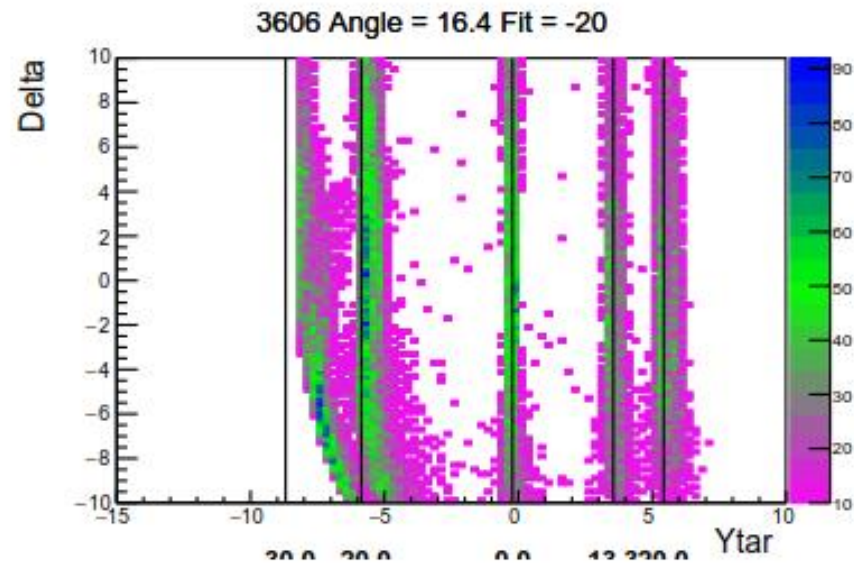
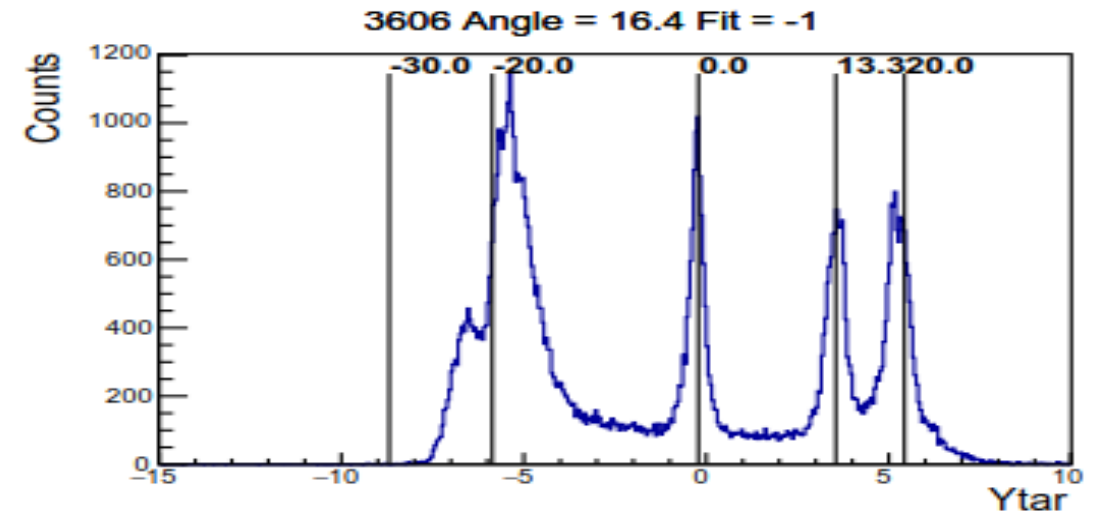
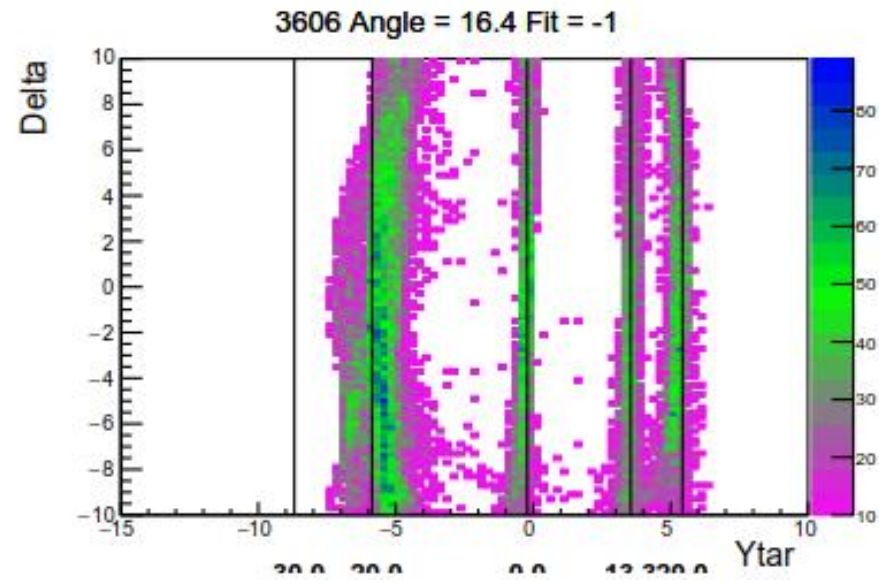




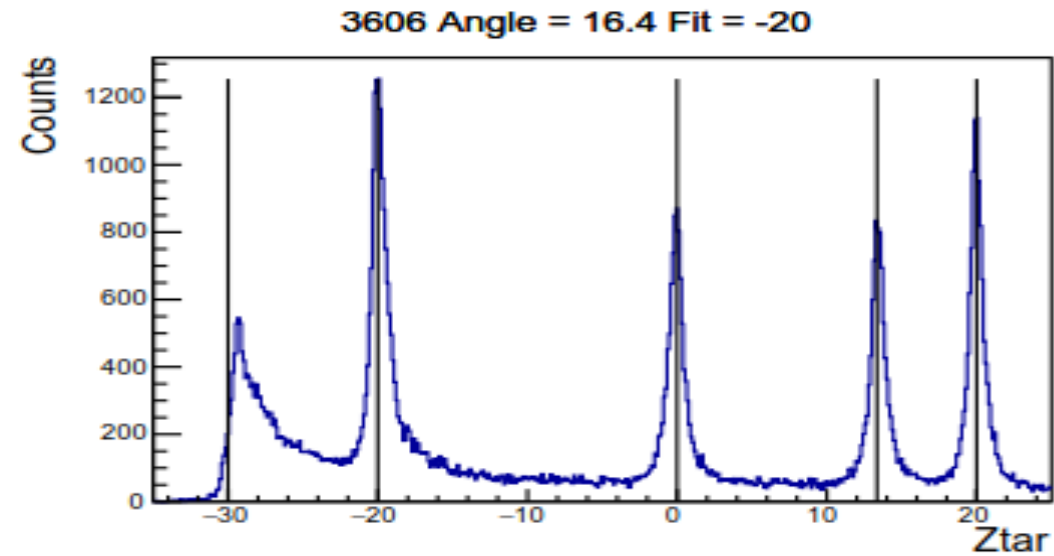
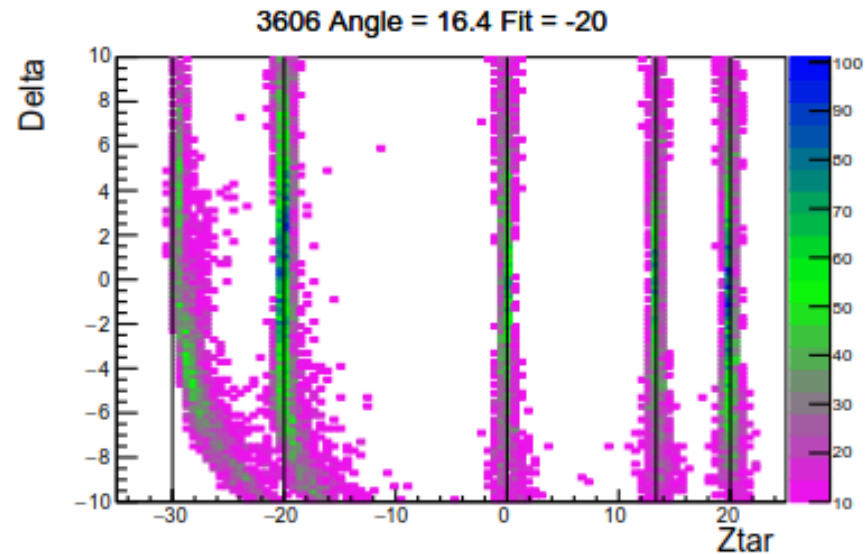
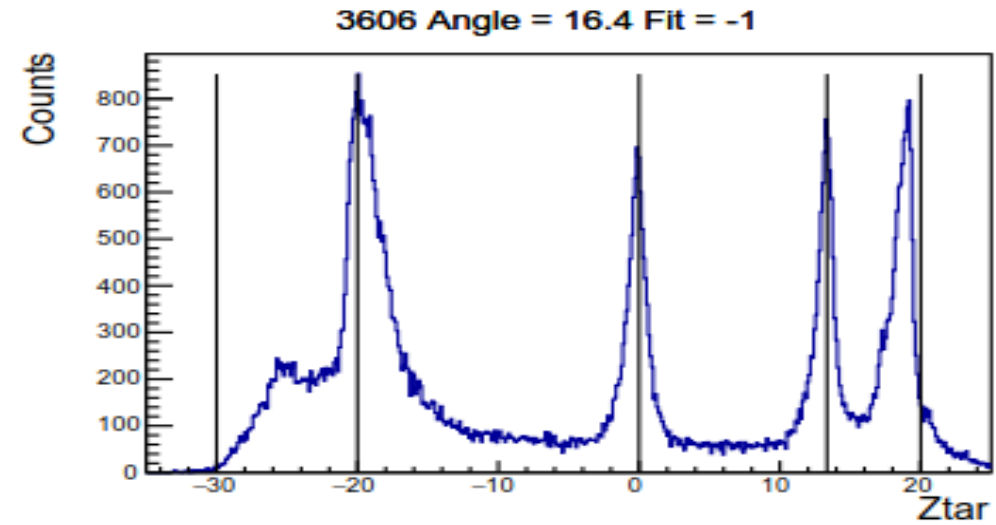
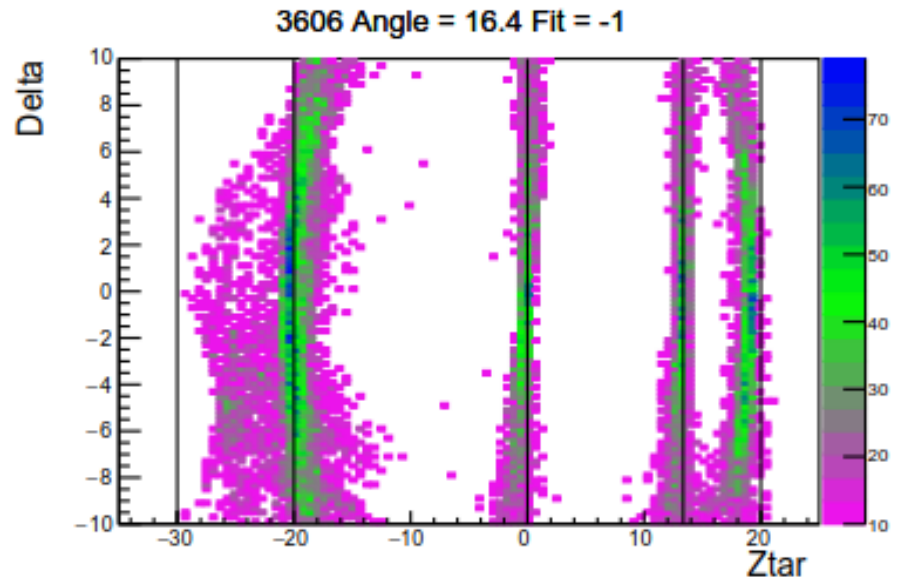
# HMS 13.5 degrees. Ztar Comparison before (Fit=-1) to after (Fit=-20)



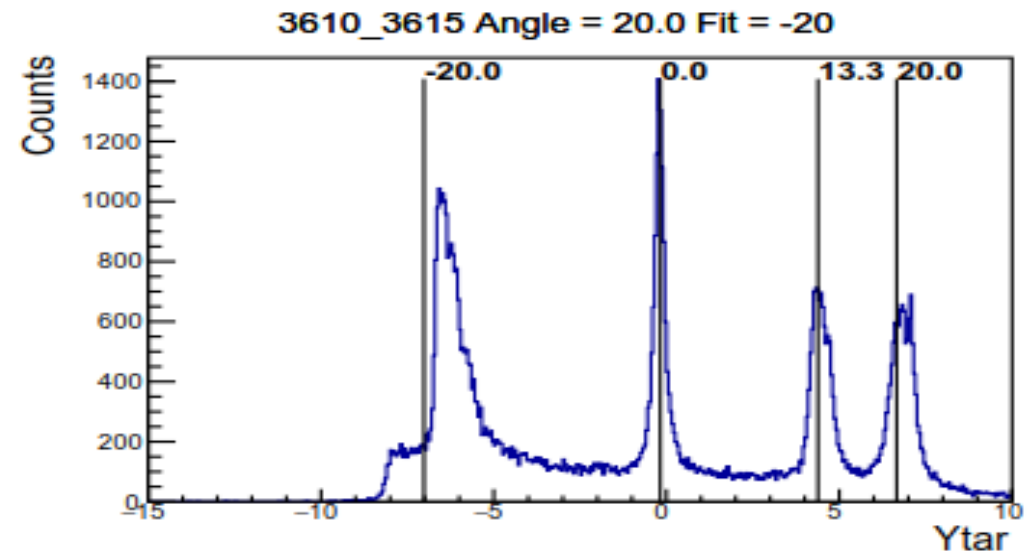
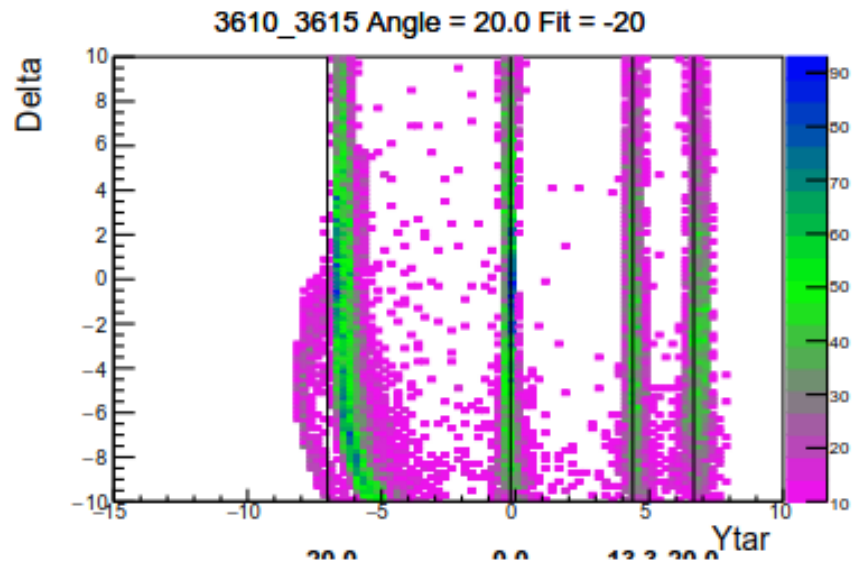
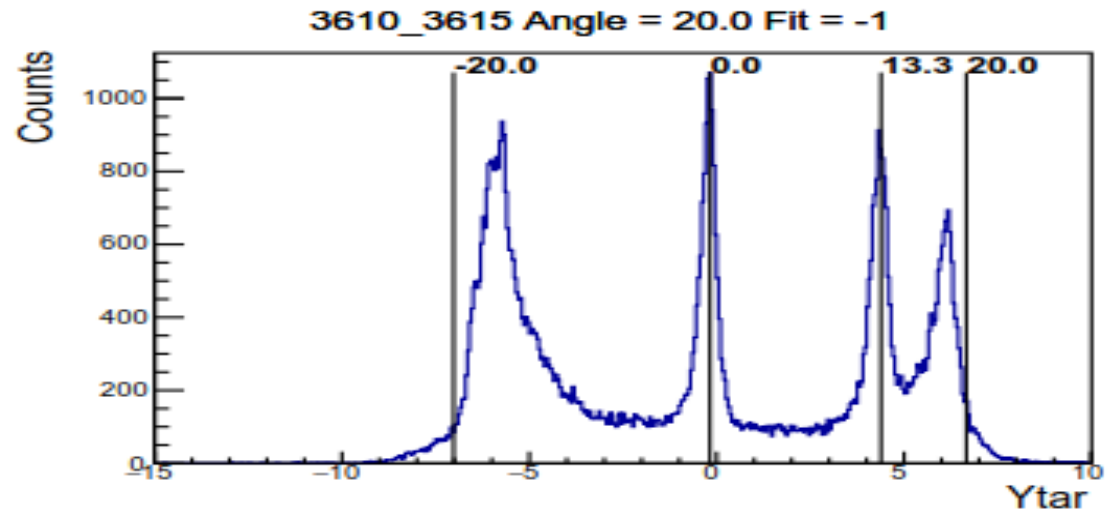
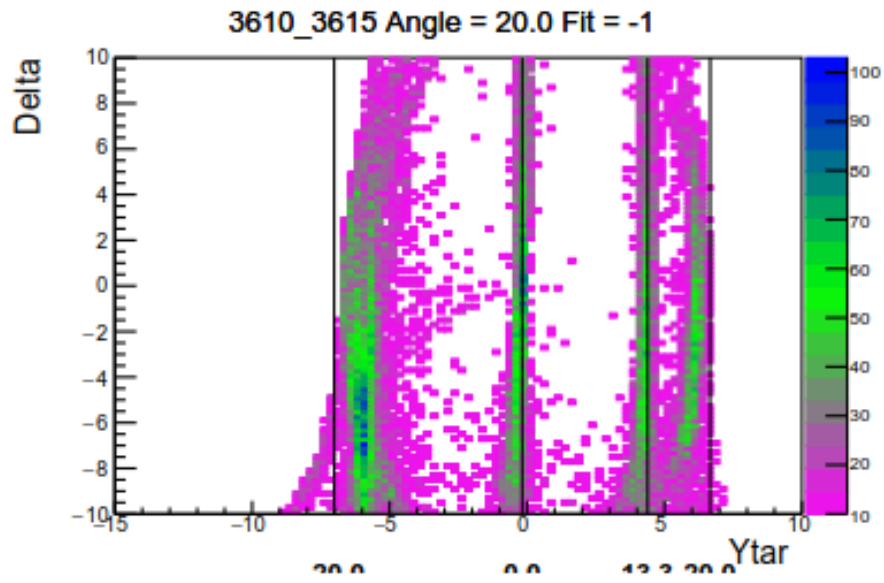
# HMS 16.4 degrees Ytar Comparison before (Fit=-1) to after (Fit=-20)



# HMS 16.4 degrees Ztar Comparison before (Fit=-1) to after (Fit=-20)



# HMS 20.0 degrees Ytar Comparison before (Fit=-1) to after (Fit=-20)





# HMS 20.0 degrees Ztar Comparison before (Fit=-1) to after (Fit=-20)

