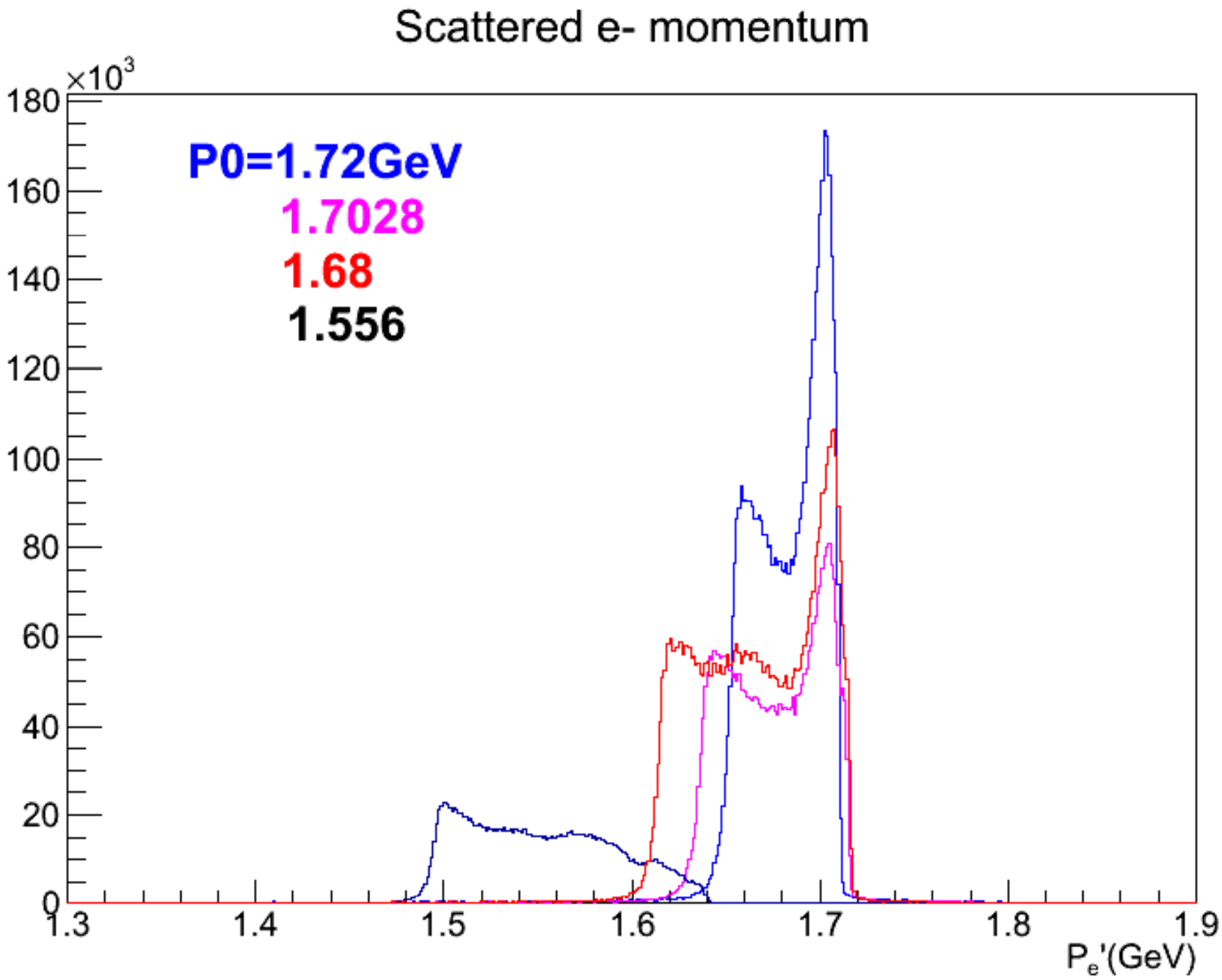
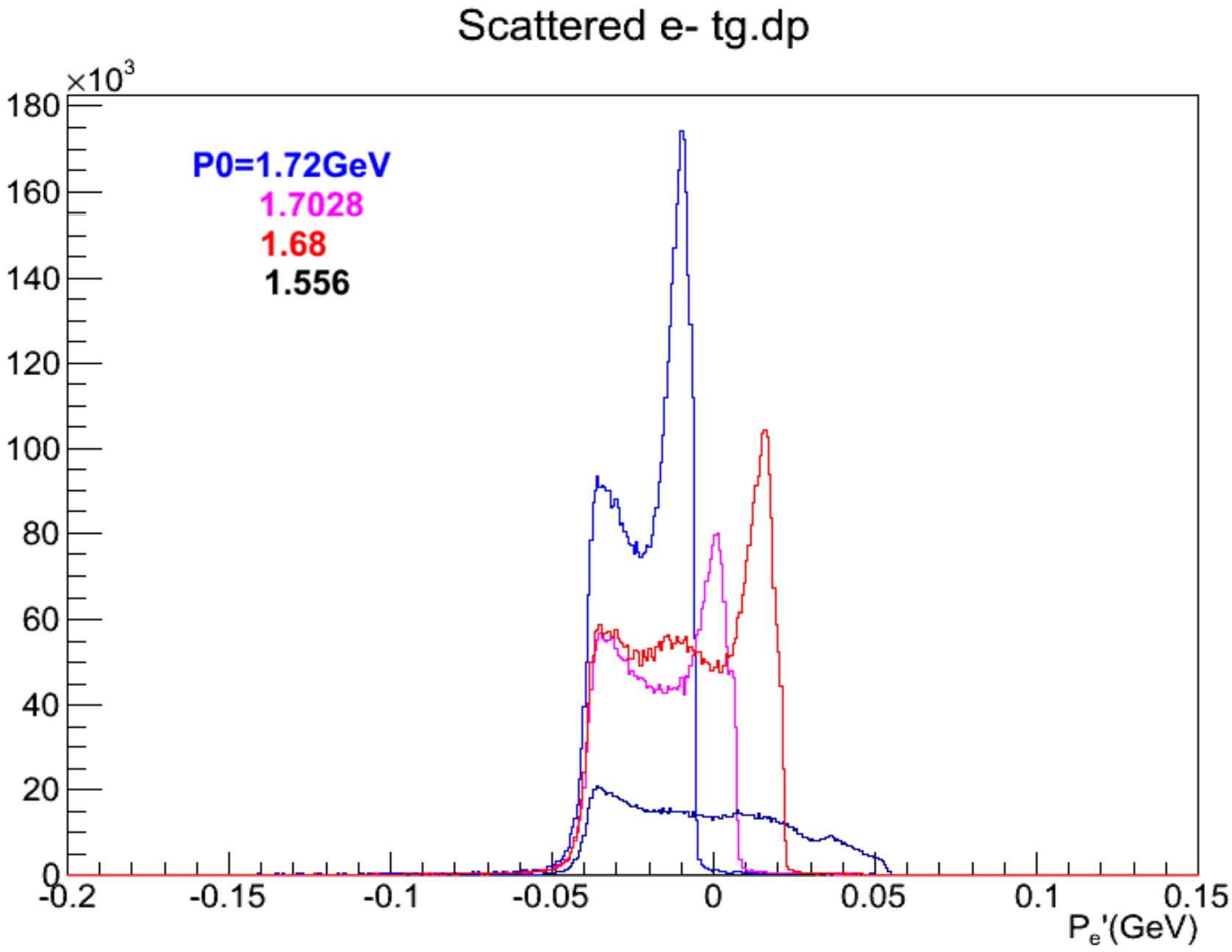
Scattered e- momentum

- RHRS run20978,20980, 20989, 20999. HRS p0 settings are written on the plot. From this, you will see the shift of the peak.
- Normalized the distribution as N*prescale/(1-DT)/current/time, assuming other factors are same for each run as Karl said
- 3 cuts: trigger T1, track #=1, Cerenkov cut (particle PID) to exclude particles other than e-


Scattered e- momentum
×10^3
180
160
140
120
100
80
60
40
20
0
1.3
1.4
1.5
1.6
1.7
1.8
1.9
P_e'(GeV)
P0=1.72GeV
1.7028
1.68
1.556


Scattered e- tg.dp
×10^3
180
160
140
120
100
80
60
40
20
0
P0=1.72GeV
1.7028
1.68
1.556
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
P_e'(GeV)

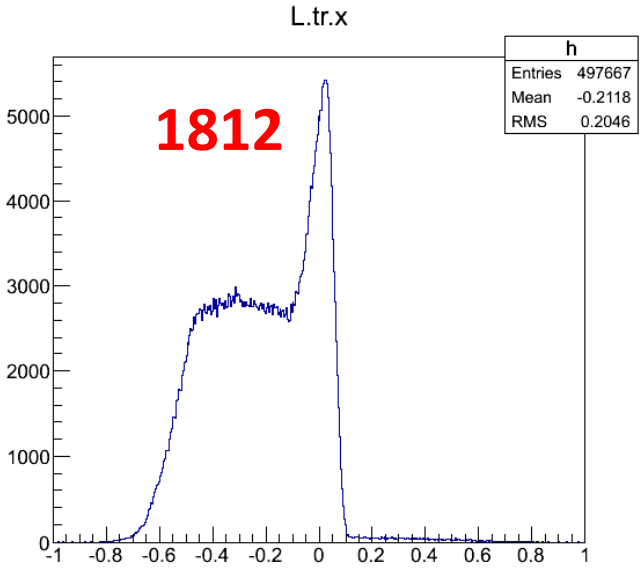
Carbon OUT runs

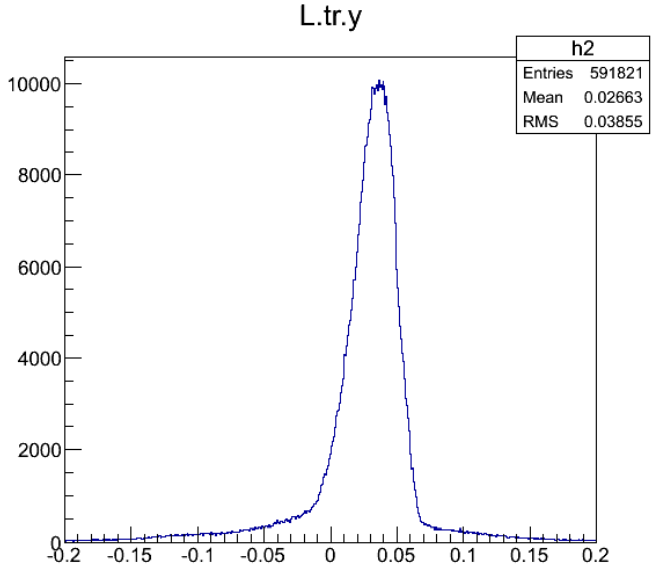
- The distributions do not change much with carbon OUT runs (only He4 in target)

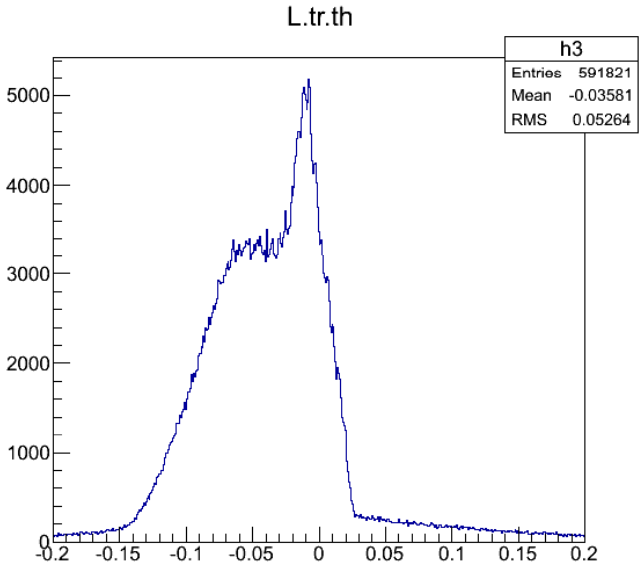
LHRS #1812 #1820

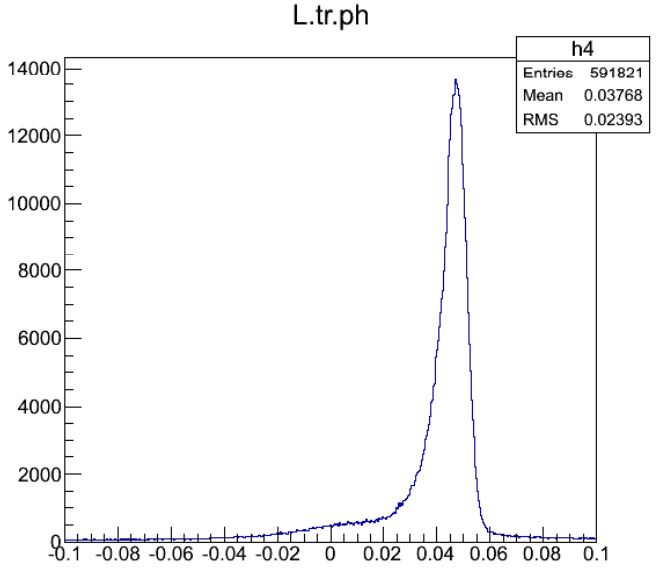
- Centered elastic peak runs, P0=1.7028 GeV
- Septa current scan from 480A to 380A
- Run 1812: 480A
- Run 1820: 380A

LHRS #1812 focal variables



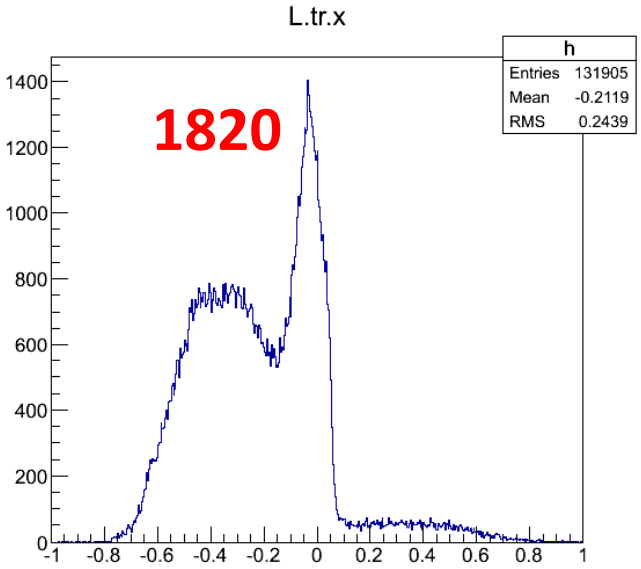


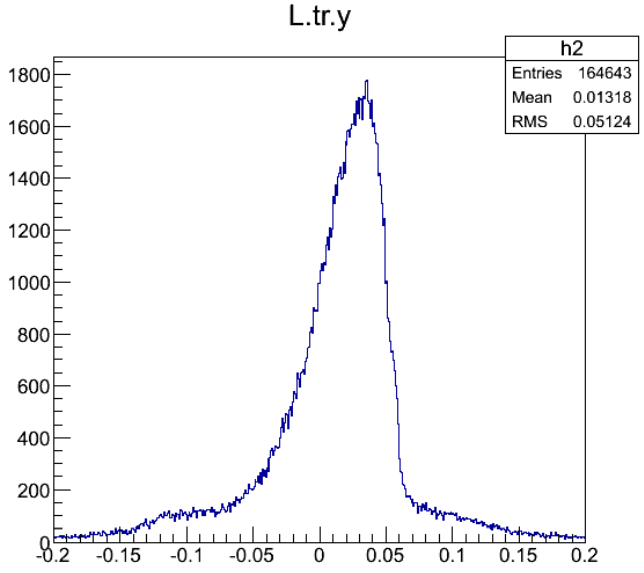


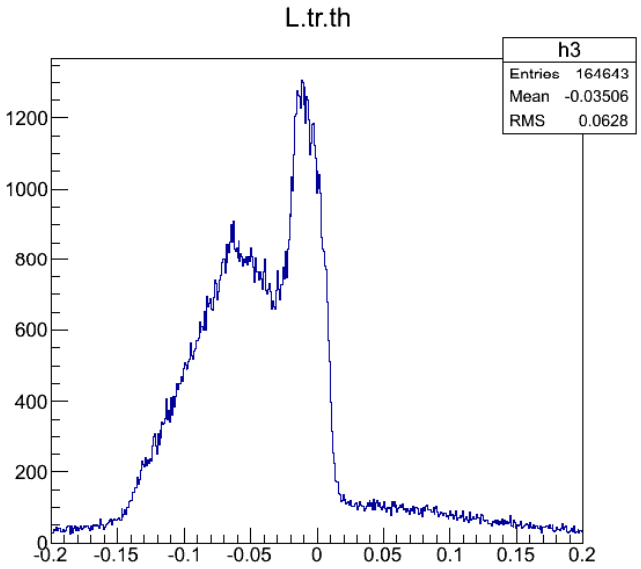


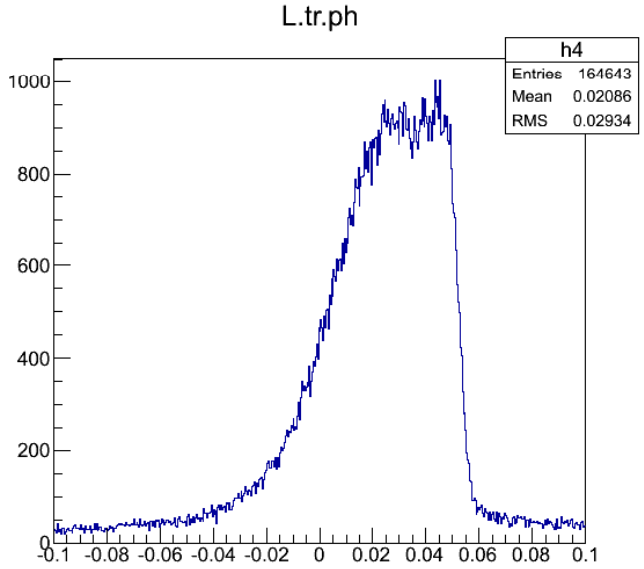
If cut on elastic peak at dp plot, x will have only the peak on right too.

LHRS #1820 focal variables



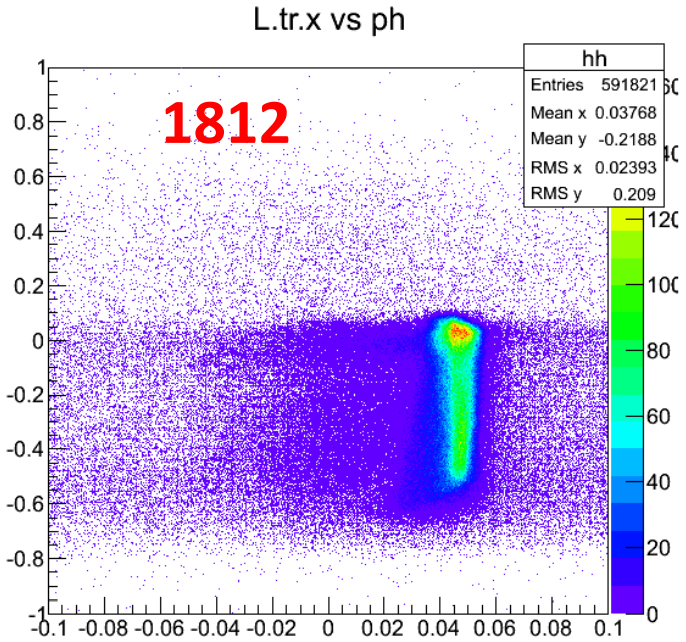


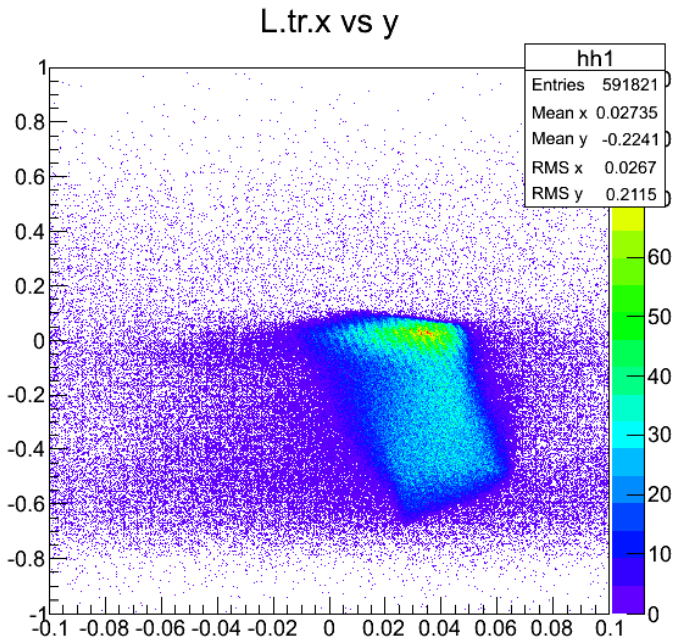




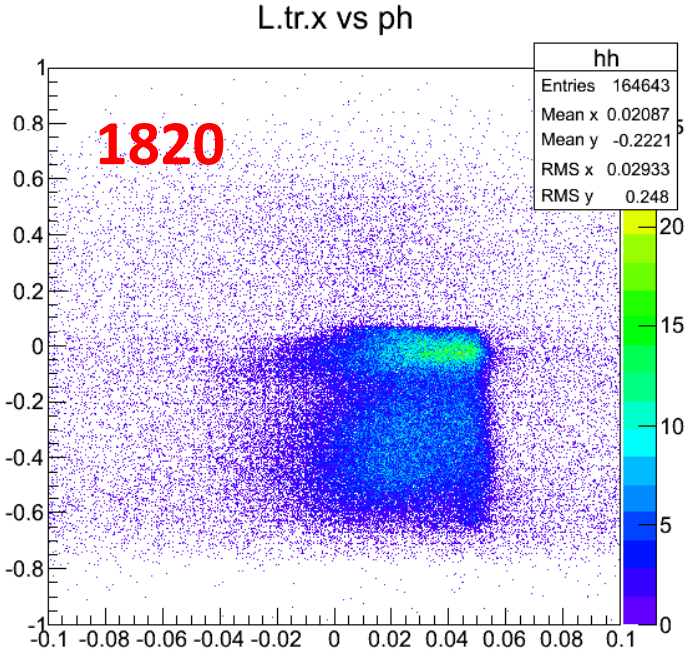
If cut on elastic peak at dp plot, x will have only the peak on right too.

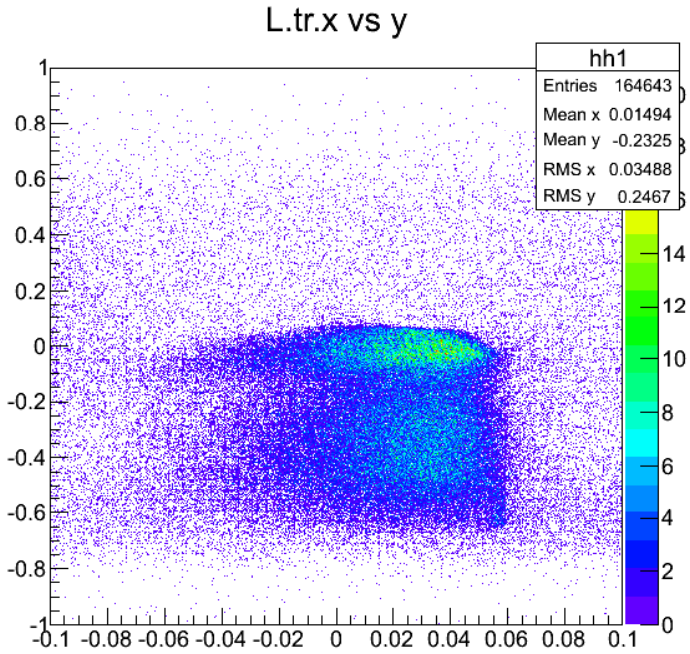
x_focal vs phi_focal (left) & x_focal vs y_focal (right)





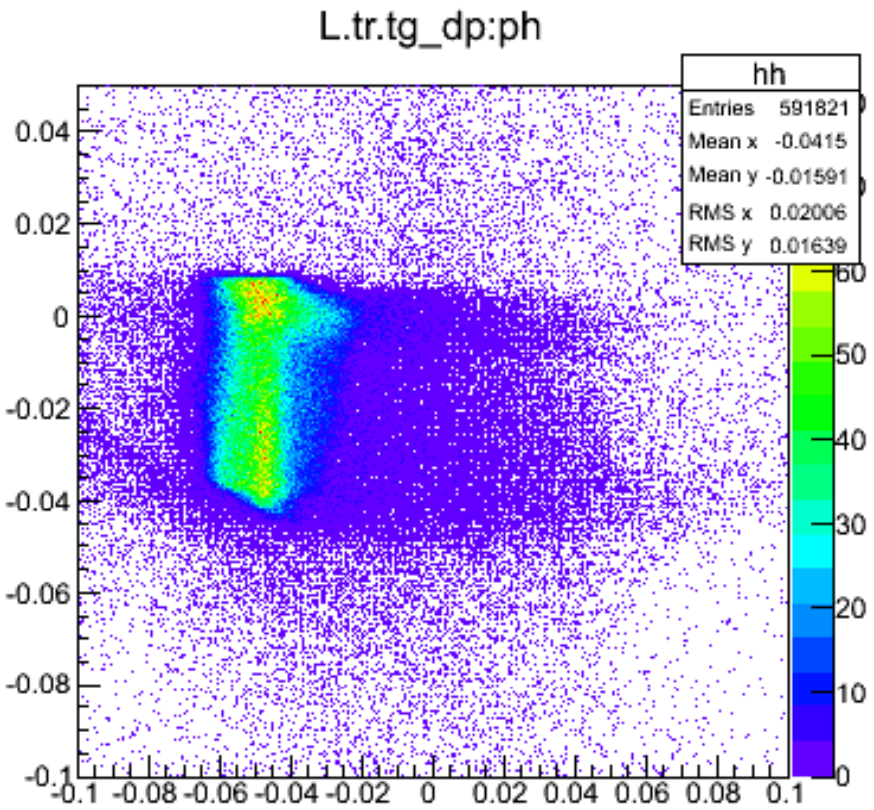
It's too bad, I did not take enough statistics in this setting!!





dp vs phi_tg

1812



1820