

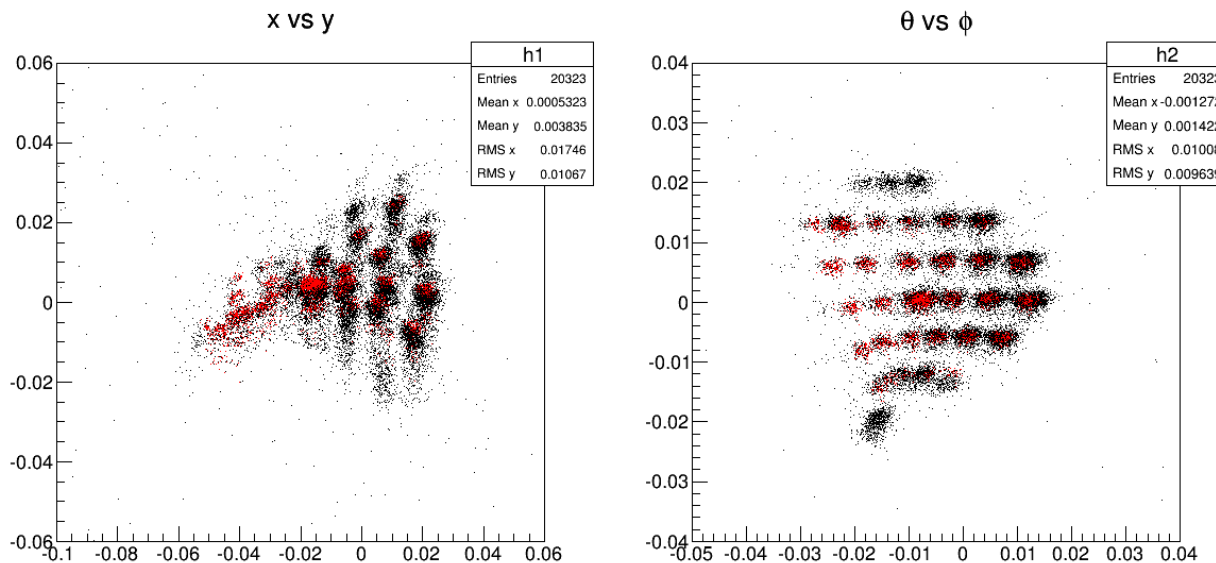
Acceptance Update

Min Huang

3/18/2015

To improve simulation

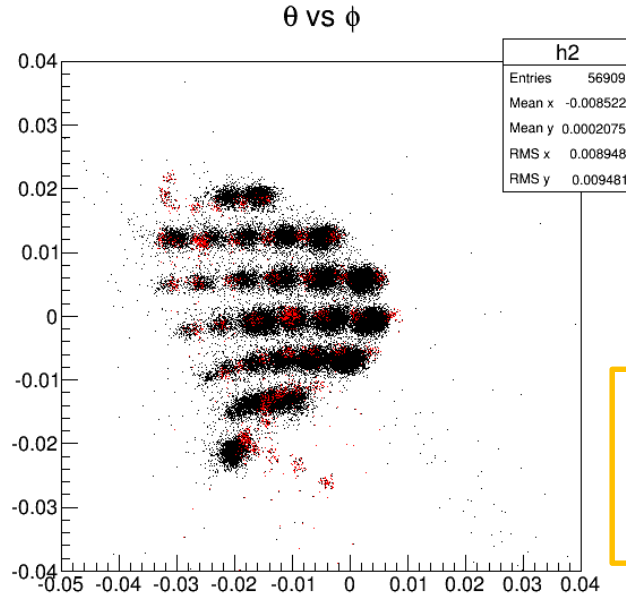
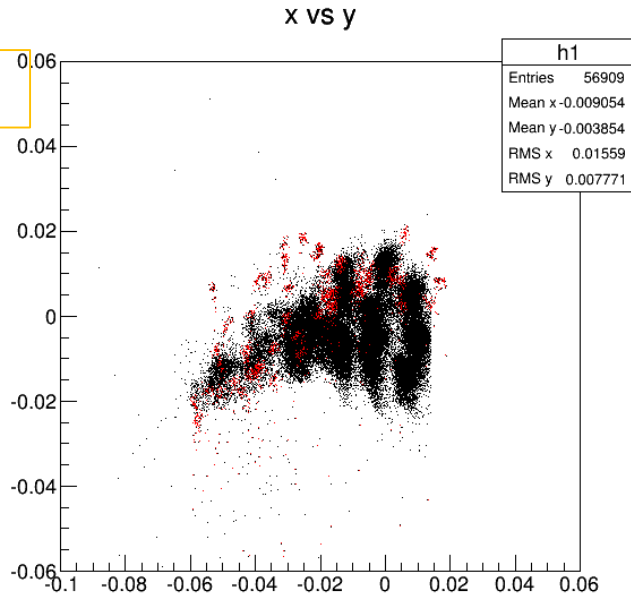
- Production runs have rastered beam, while the optics calibration runs I used have point beam
- Need to correct for this effect
- Included window data into calibration
- Updated results for Delta Scan runs



#3185 No target field, 2.253GeV, 0%
(-0.8mm,2.3mm)

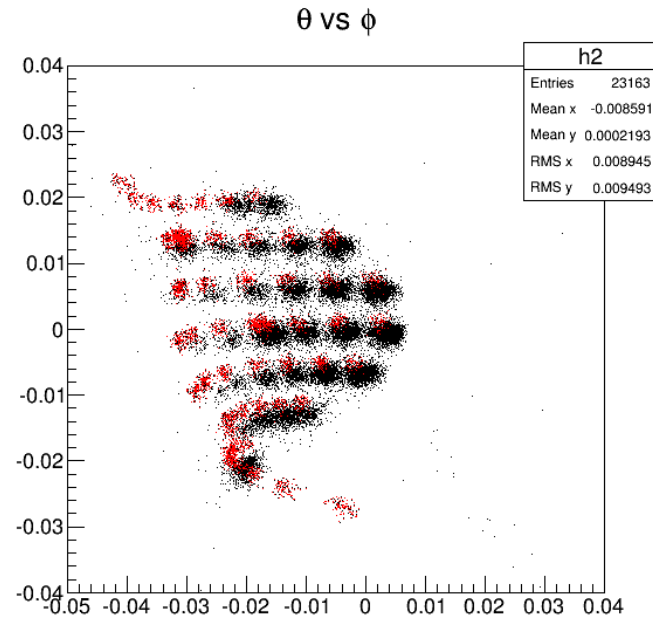
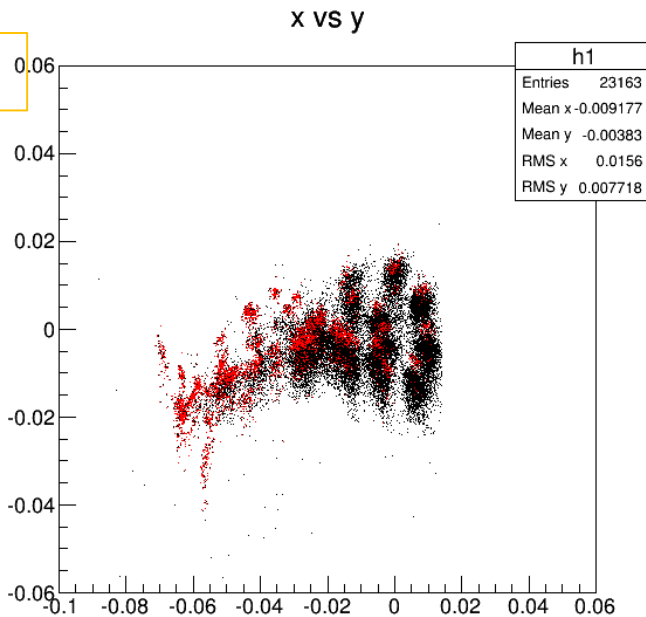
• Beam scan runs

Before



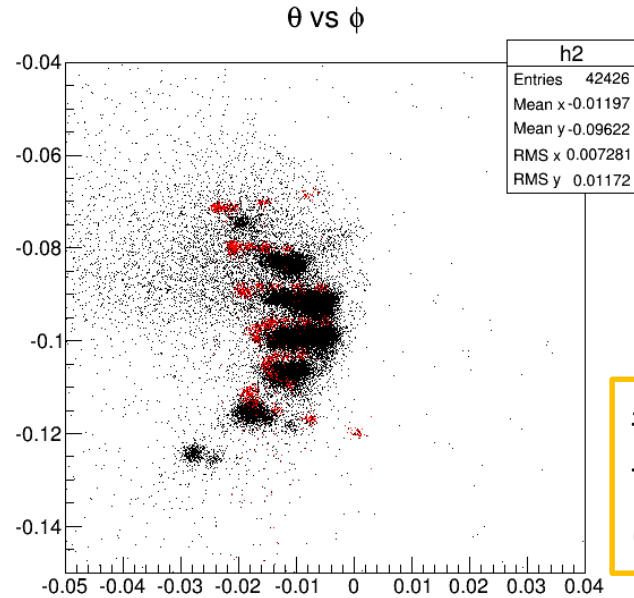
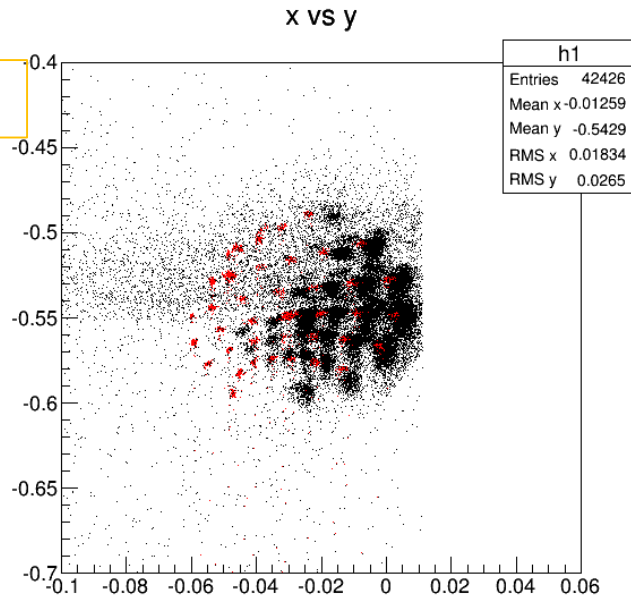
#3173 No target field, 2.253GeV, 0% (-5.6,-0.5)

Now



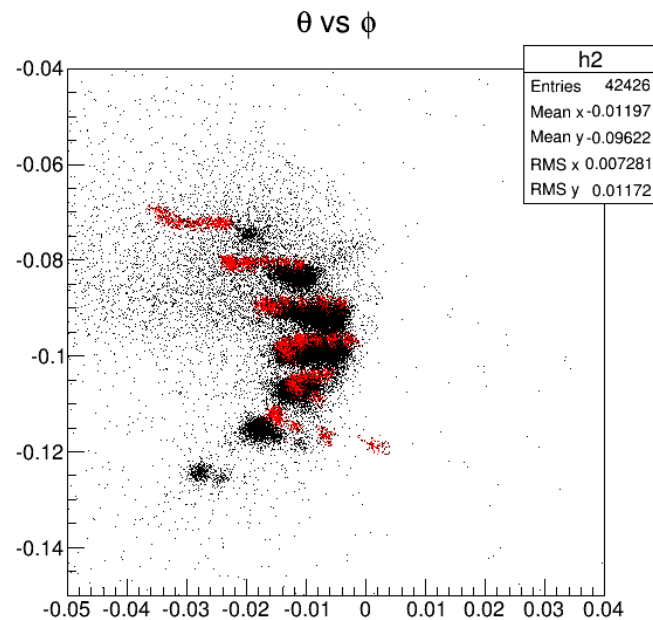
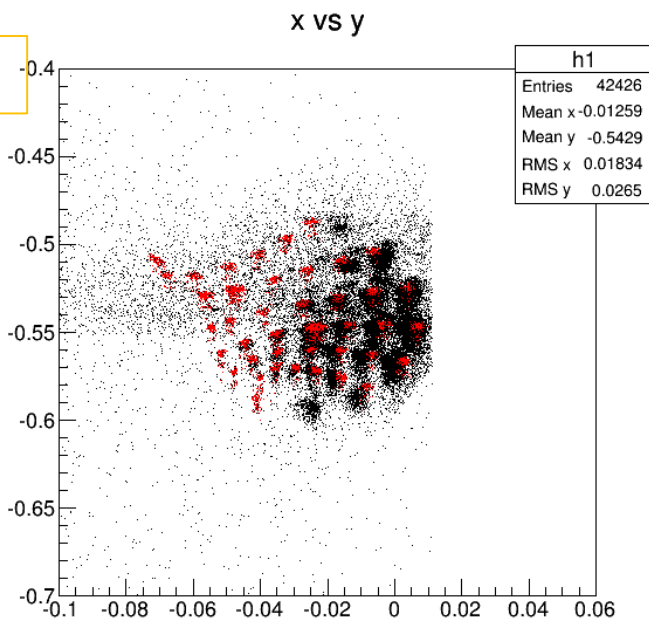
• Beam scan runs

Before



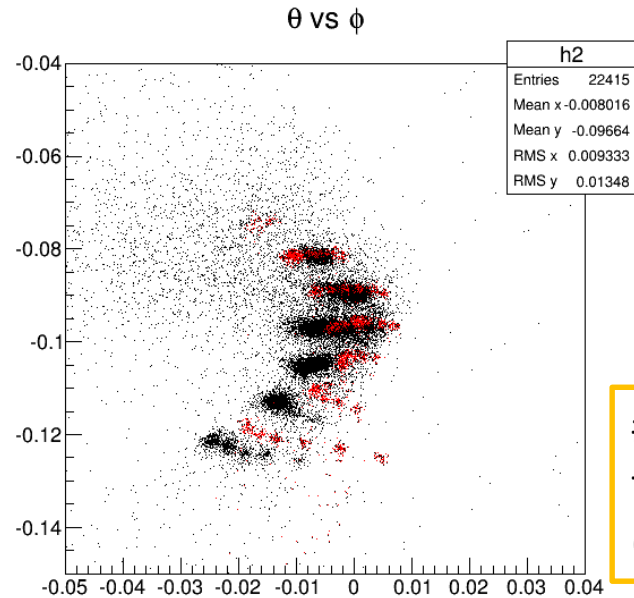
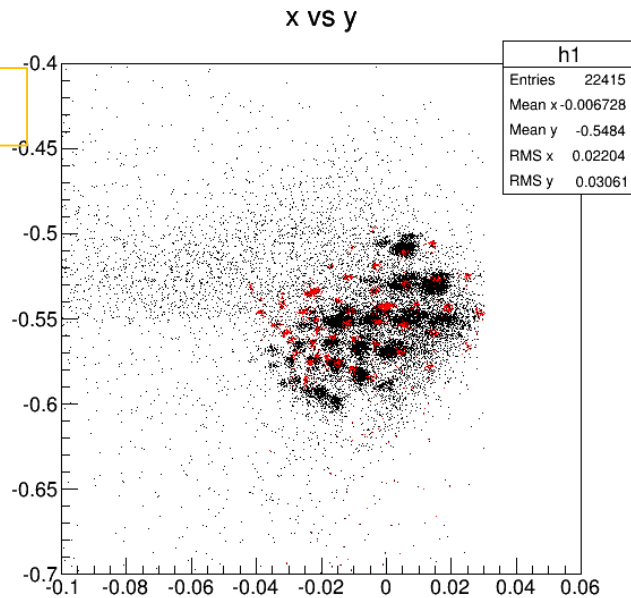
#3174 No target field, 2.253GeV, -4% (-0.1,4.0)

Now



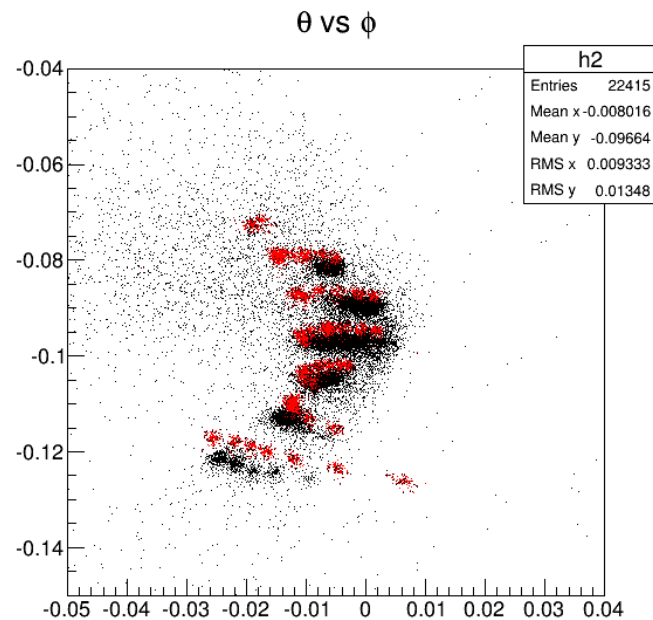
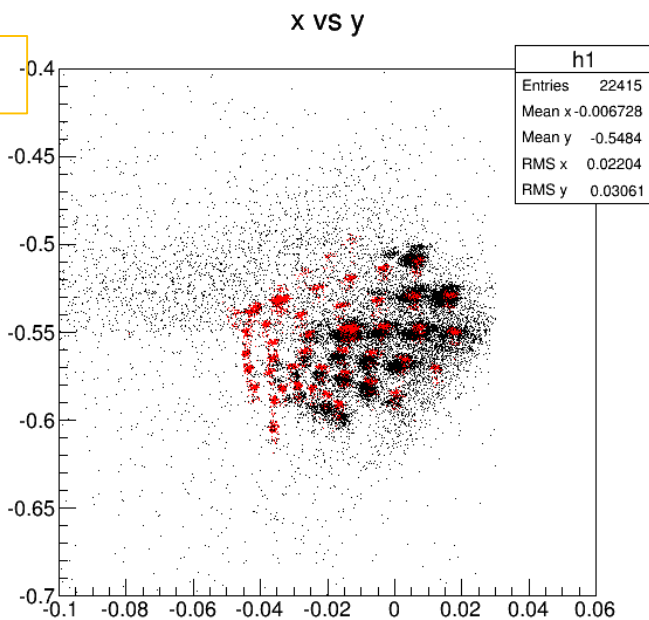
• Beam scan runs

Before



#3175 No target field, 2.253GeV, -4% (-4.9,-1.0)

Now

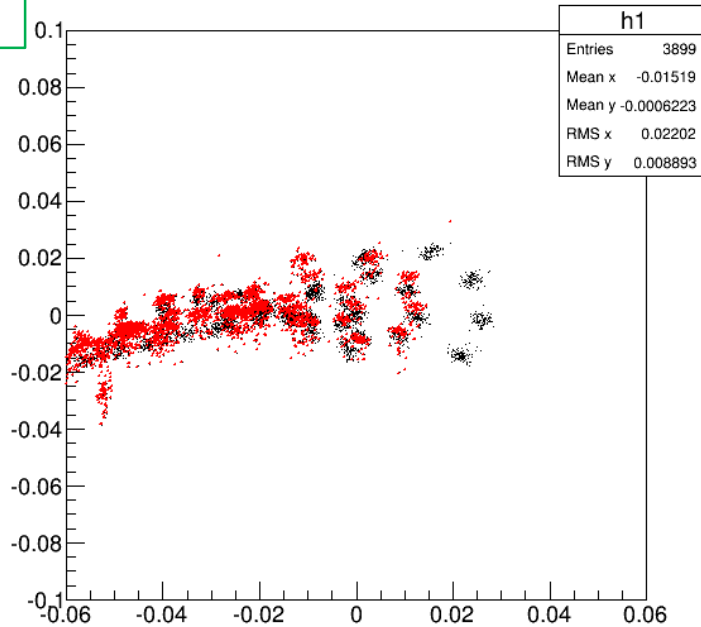


Target Field Runs

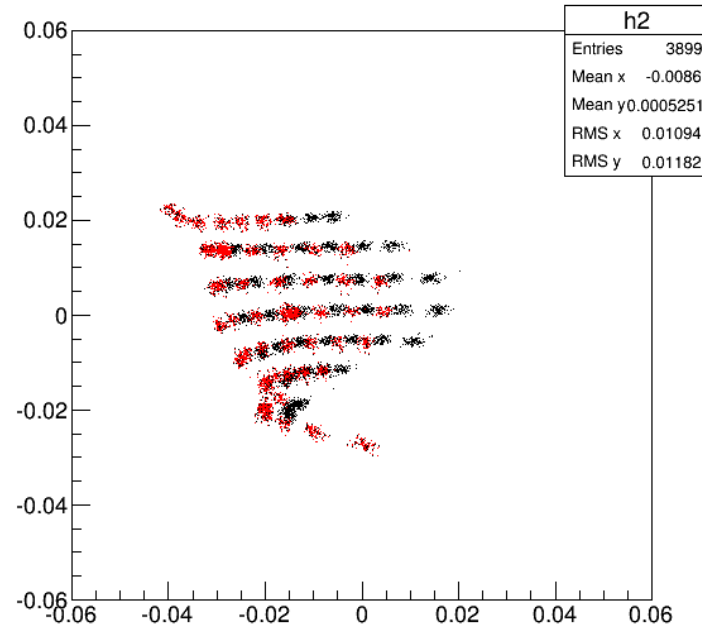
- Delta Scan
- 2.253GeV, 2.5T Trans, good septum

0%

x vs y



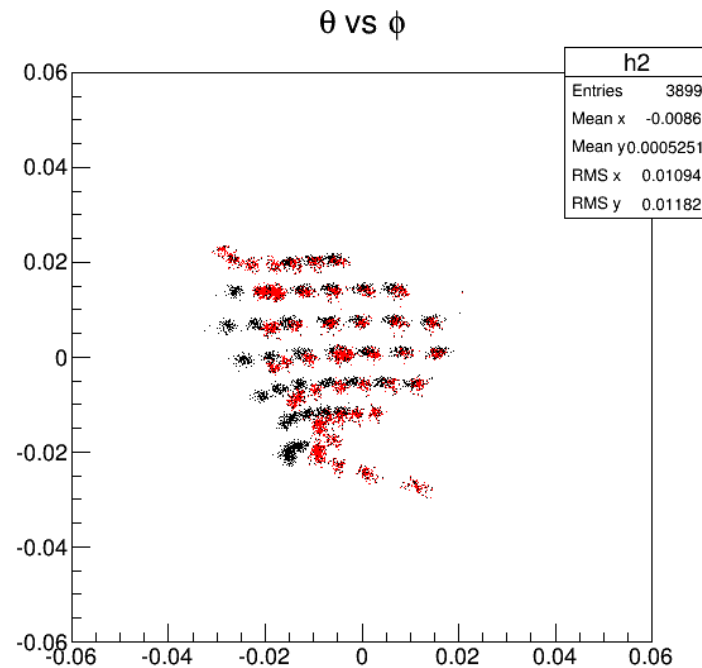
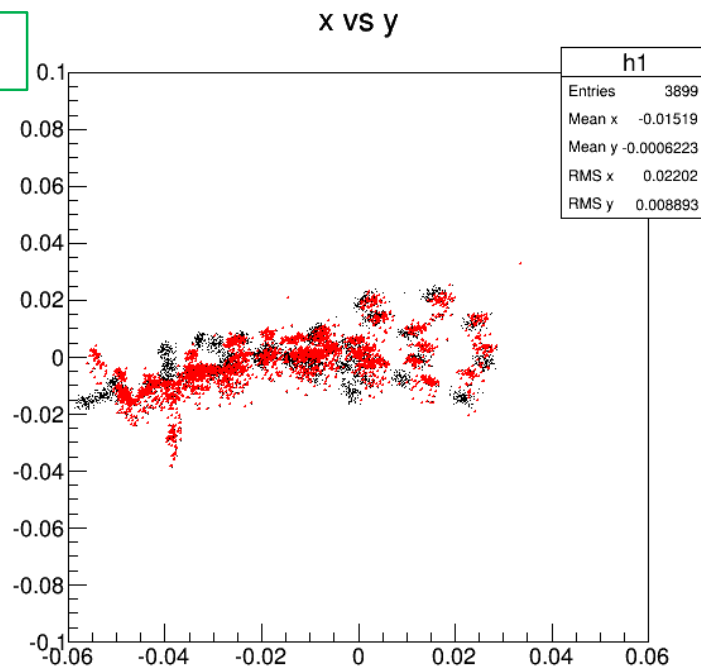
θ vs ϕ



Target Field Runs

- Delta Scan
- 2.253GeV, 2.5T Trans, good septum

0%

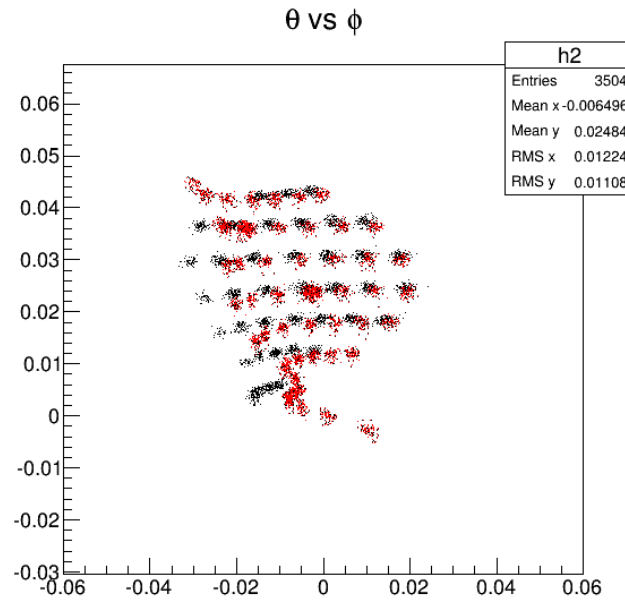
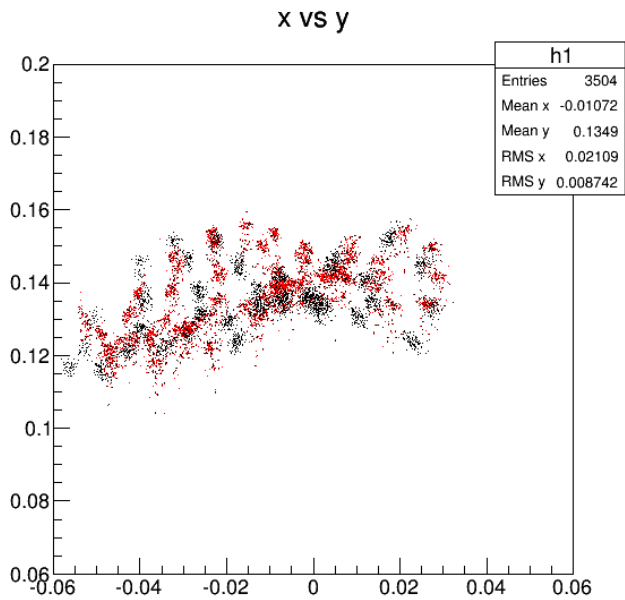


After adding constants on y and phi

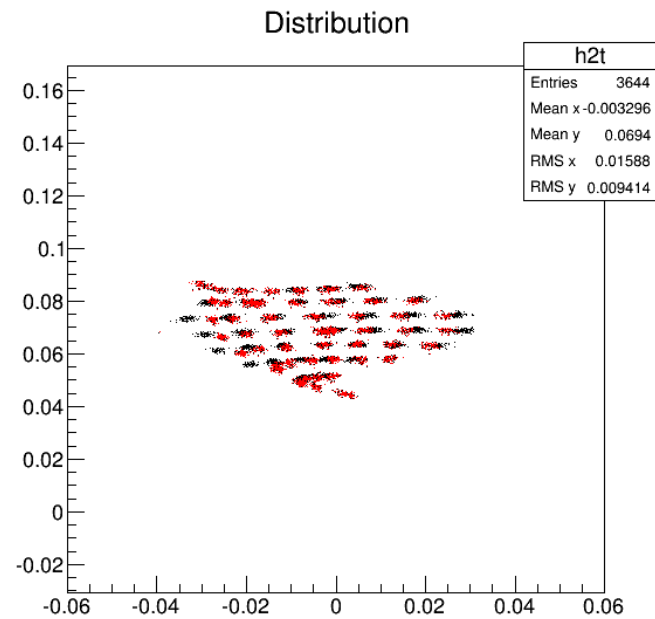
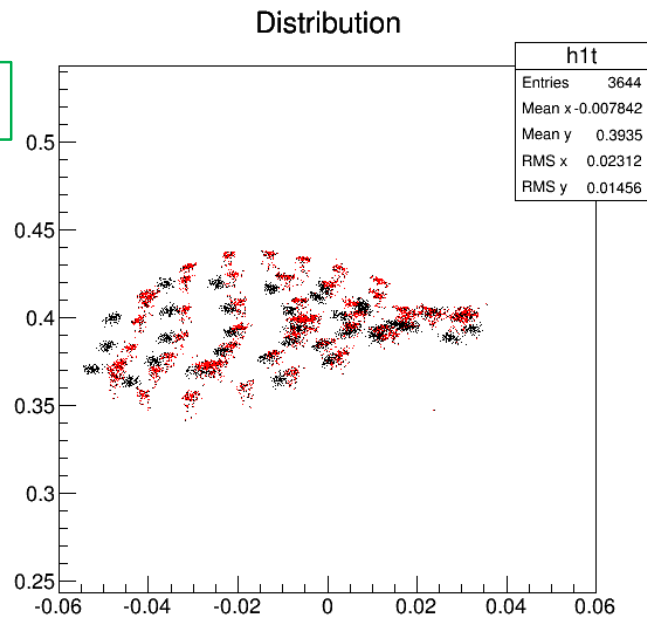
Target Field Delta Scan Runs

Same constants as 0%

1%



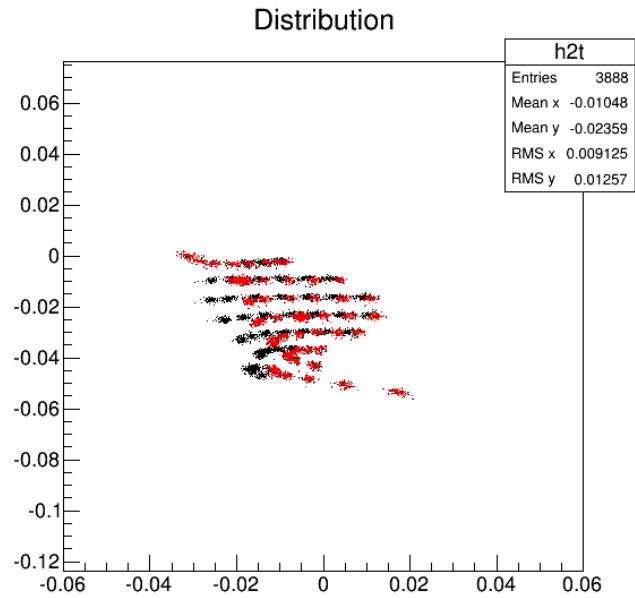
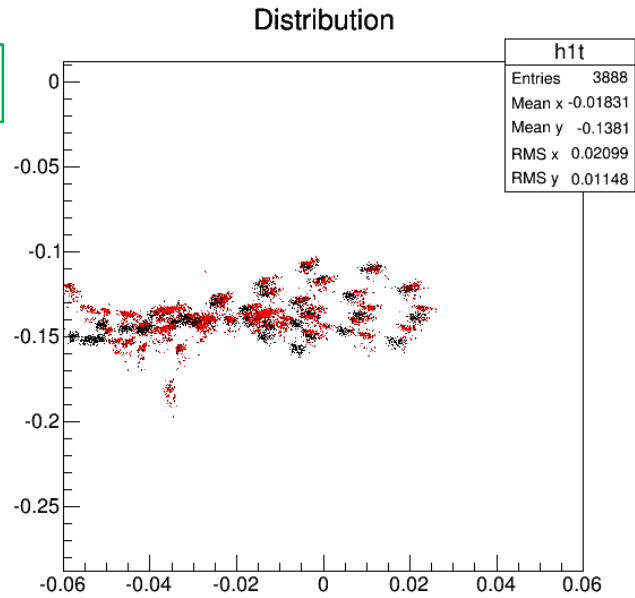
3%



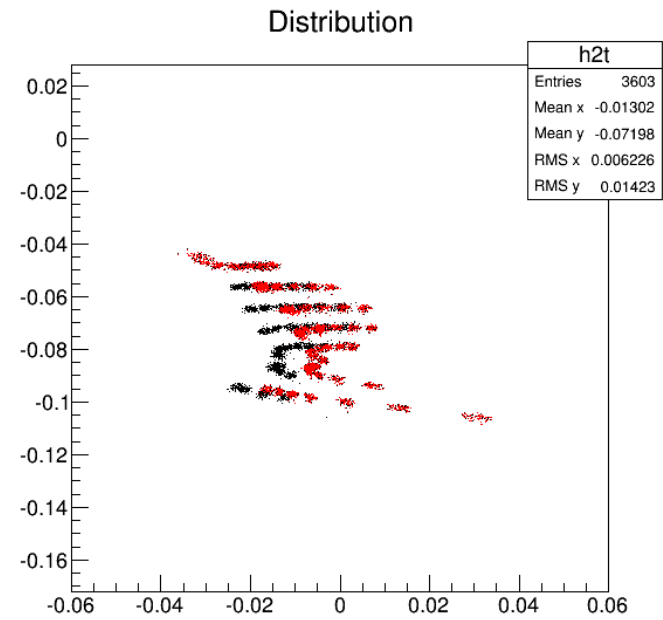
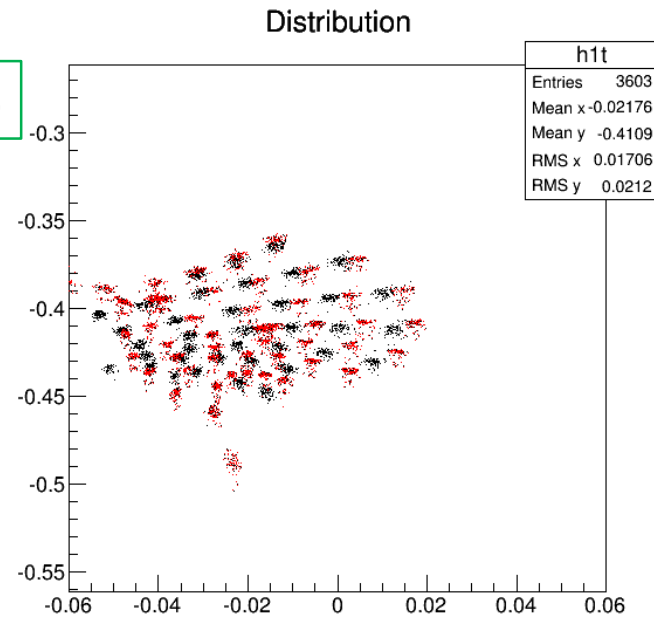
Target Field Delta Scan Runs

Same constants as
0%

-1%



-3%



Next

- Suggestions about this constant shift?
- Production runs
- Thanks to Chao's graphic cuts of optics calibration

Backup

- Window events comparison

