Optics/Acceptance Update

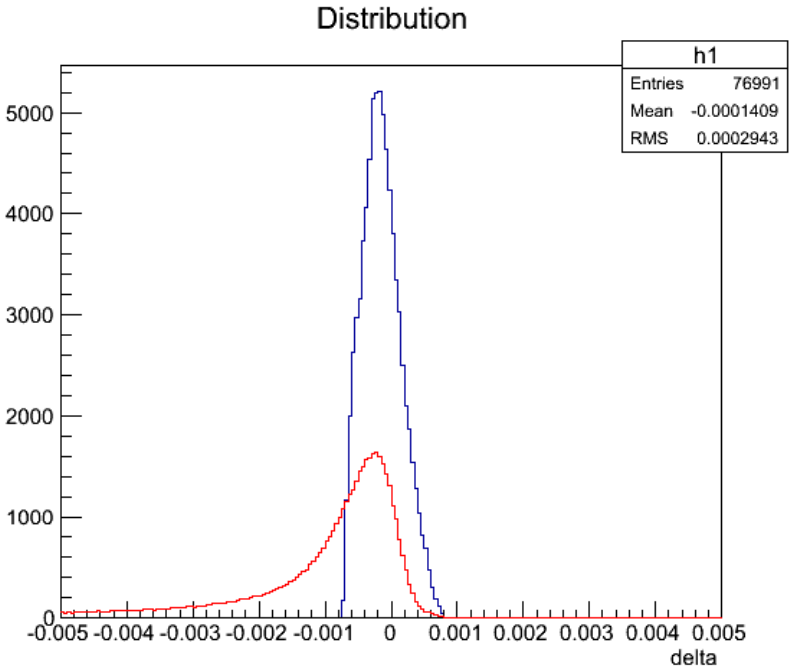
Min Huang

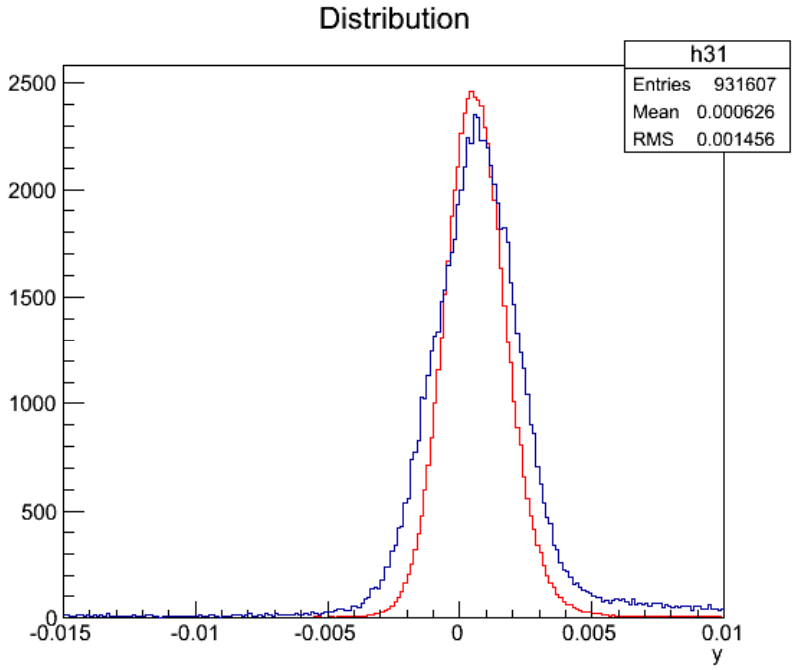
12/04/2013

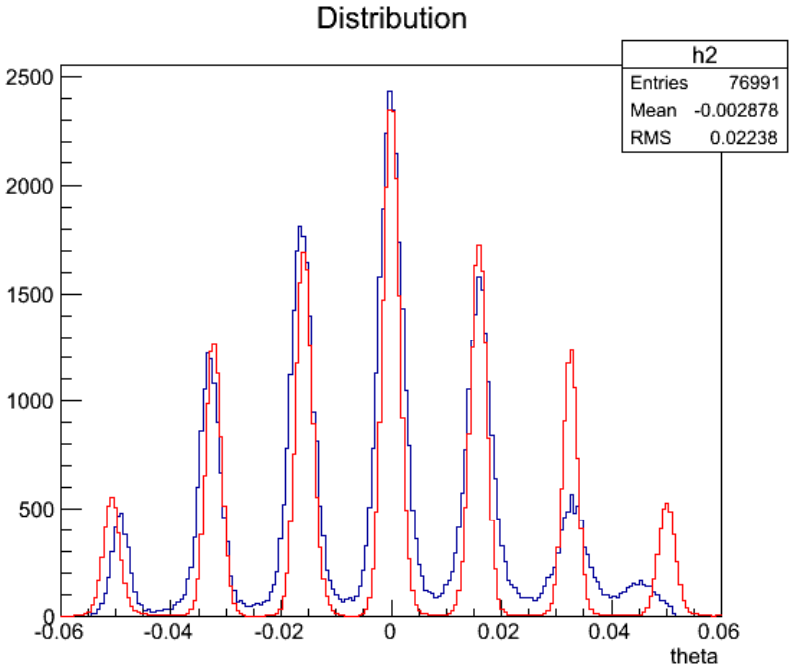
Comparison of Target Quantities

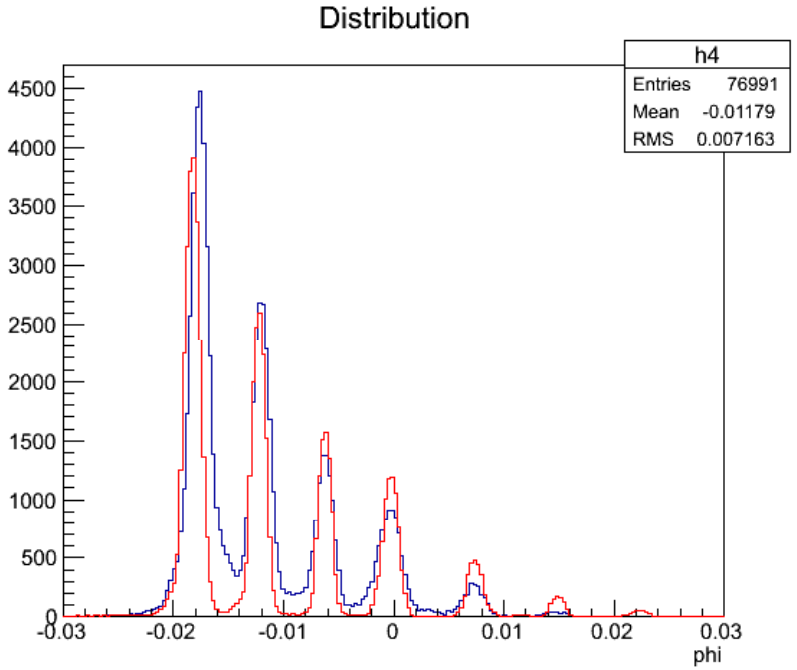
- March 4th, 2012
  - Straight through, C with LHe in target nose
  - Beam position (-2.6mm, 0.1mm)
- March 14th, 2012
  - Straight through, C no LHe
  - Beam position (-3.6mm, 1.4mm)
- Snake transport functions forward + backward
  - Weighted by elastic cross section (g2psim, K. Steinfield)
- Optimized data (matrix by Chao)
  - dp cut to select C12 elastic events

3/4
#2726
Snake
Data



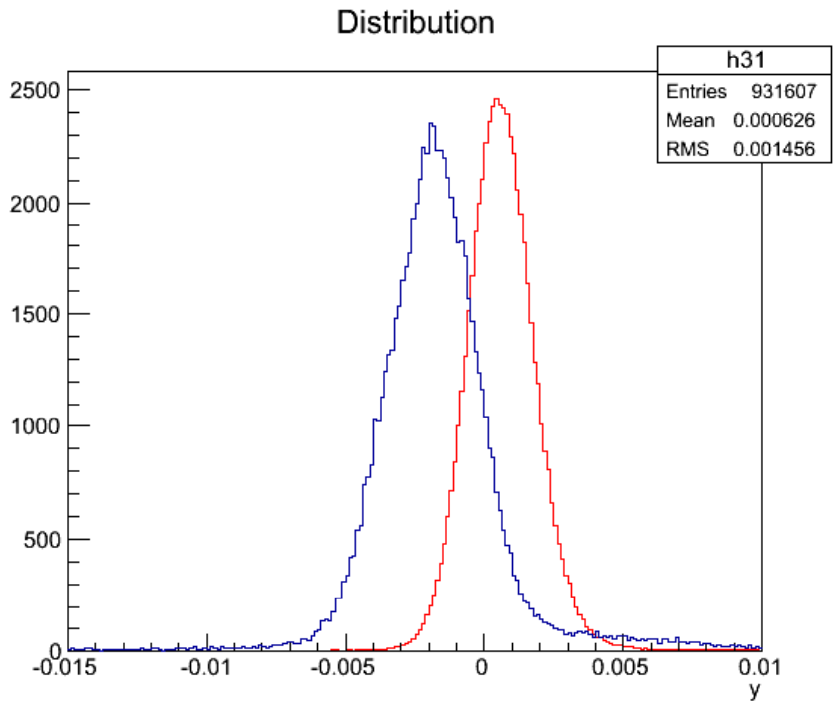




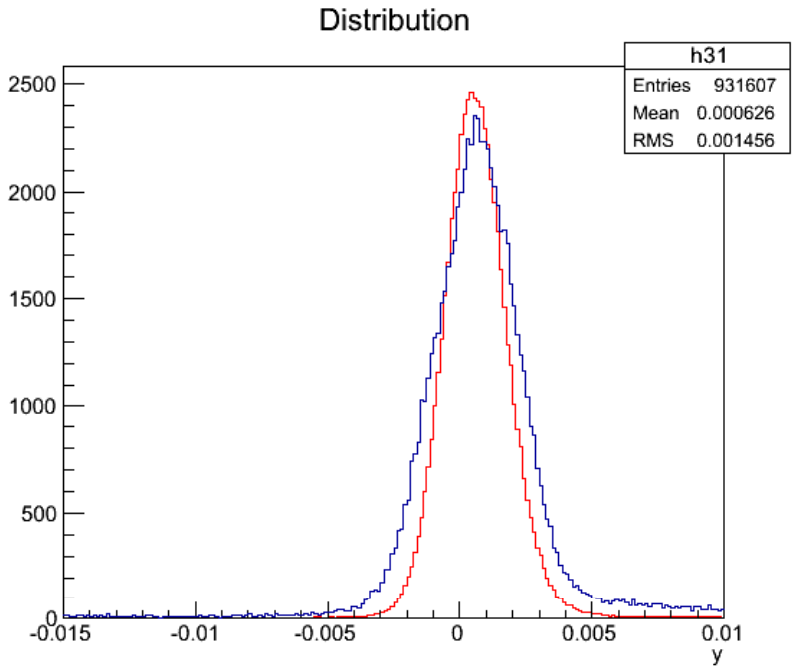


Target y

No y_tg calibration data on 3/4
Used 3/14 y matrix

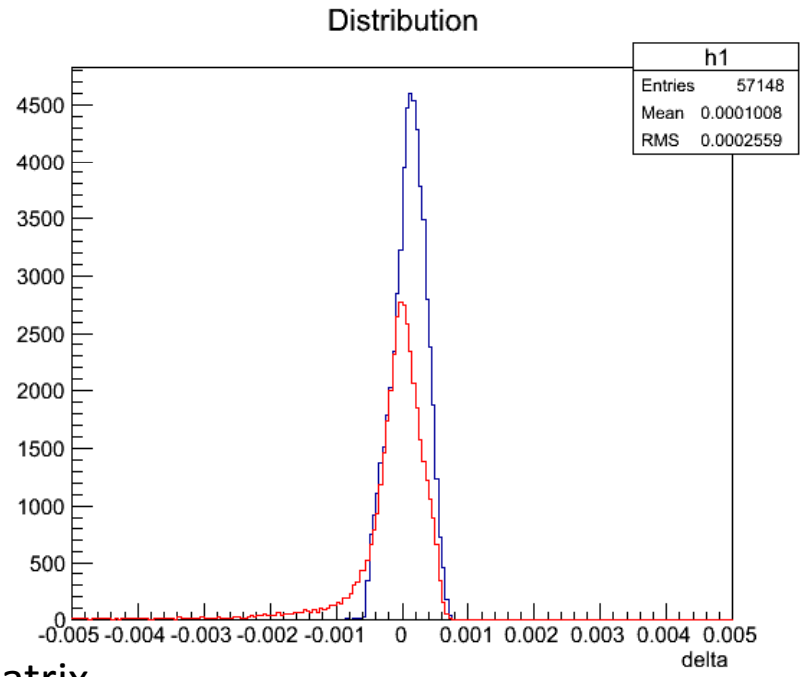


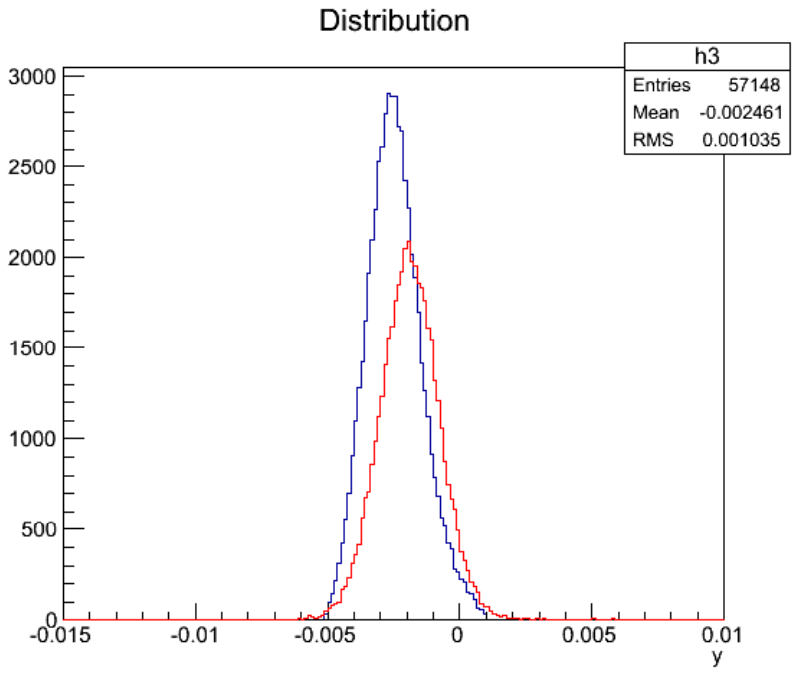
Put in a constant into data reconstruction to force them match

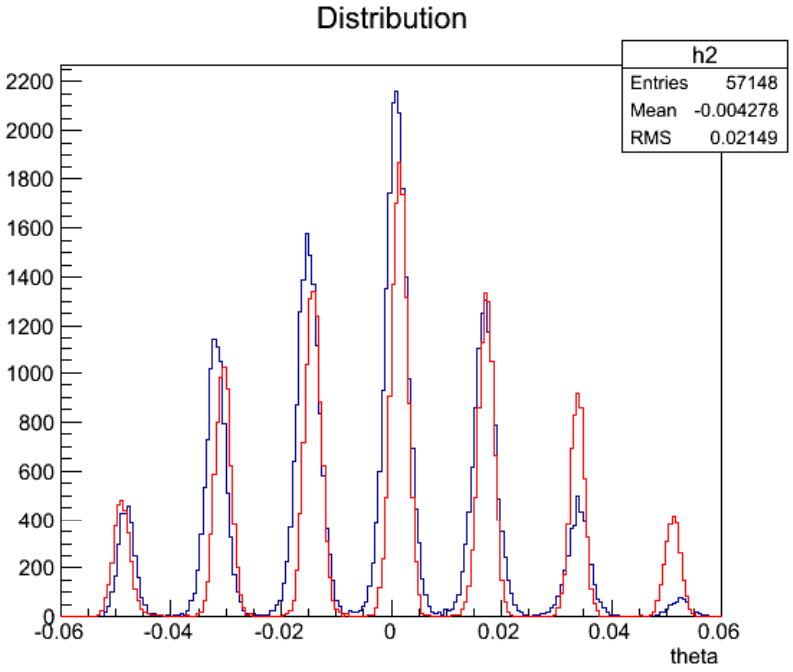


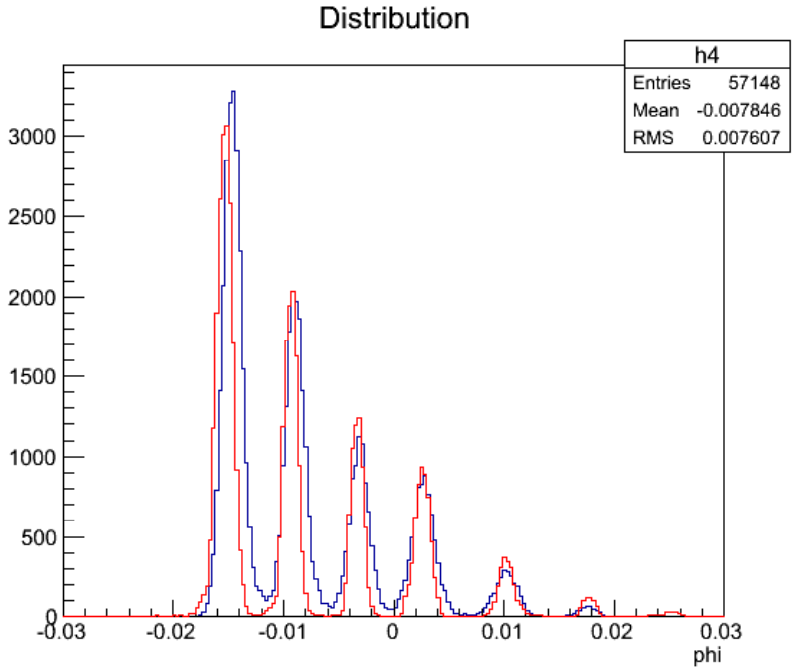
3/14
#3185
Snake
Data

Original matrix





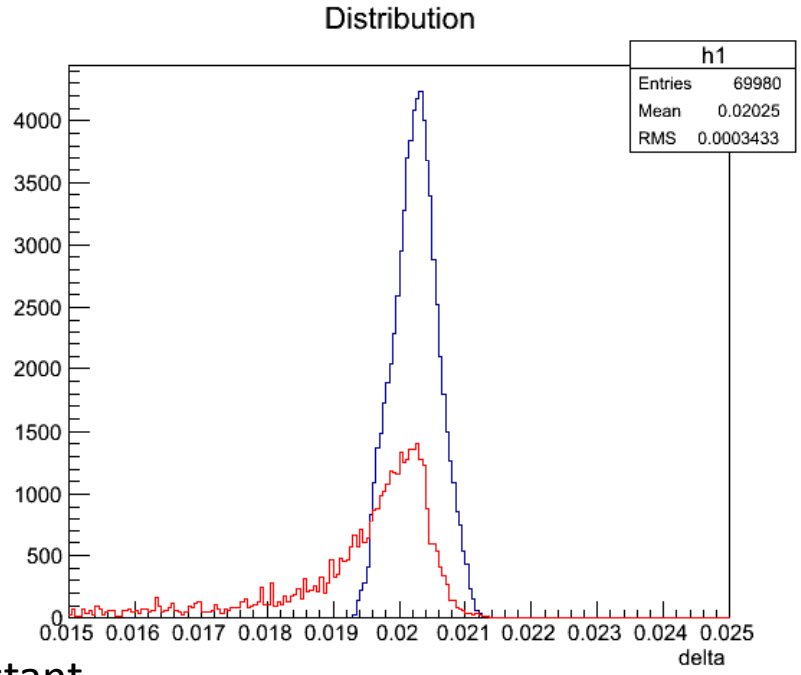


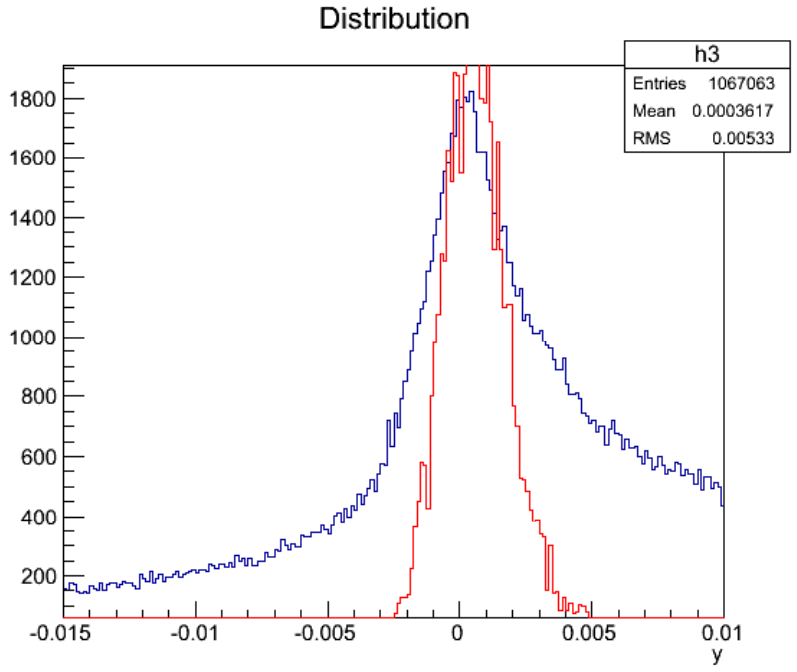


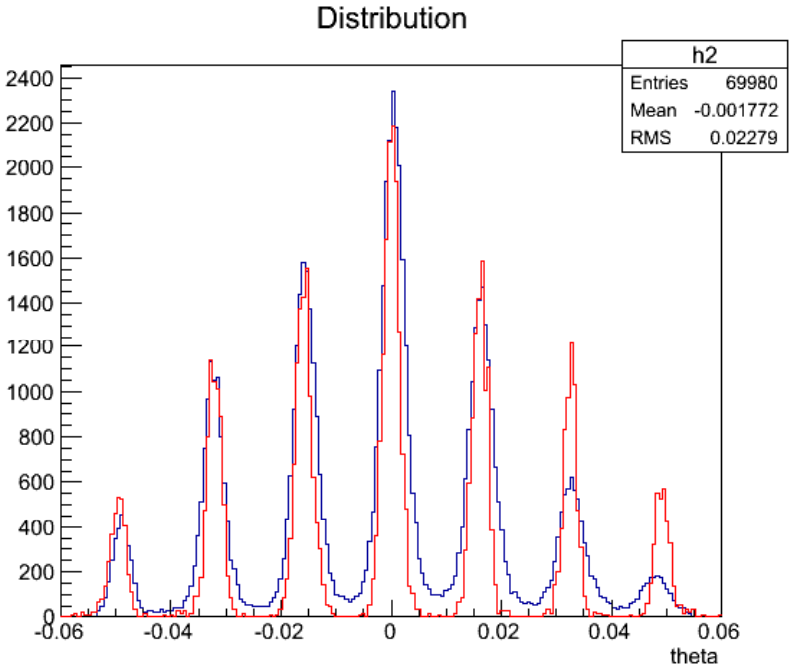
Snake
Data

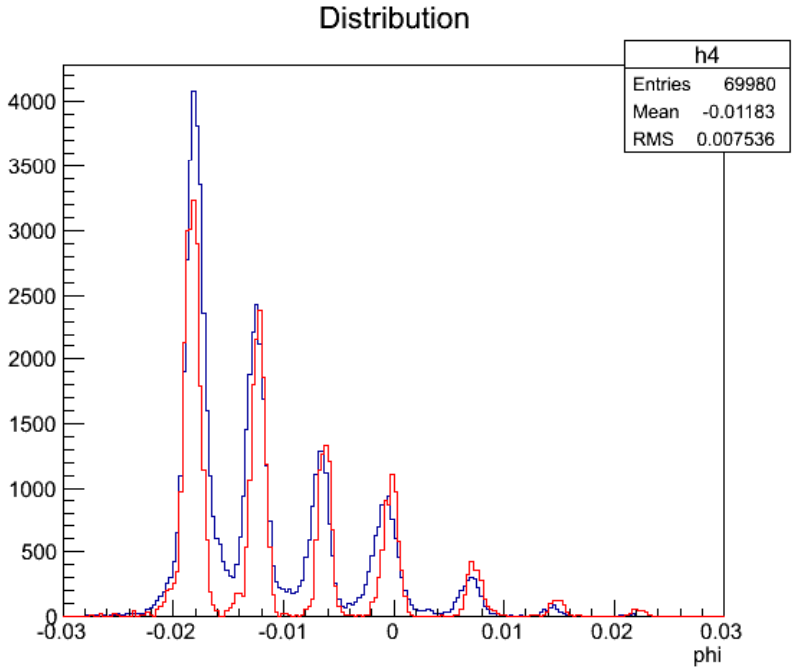
3/4
#2740
dp=2%

Same constant for y







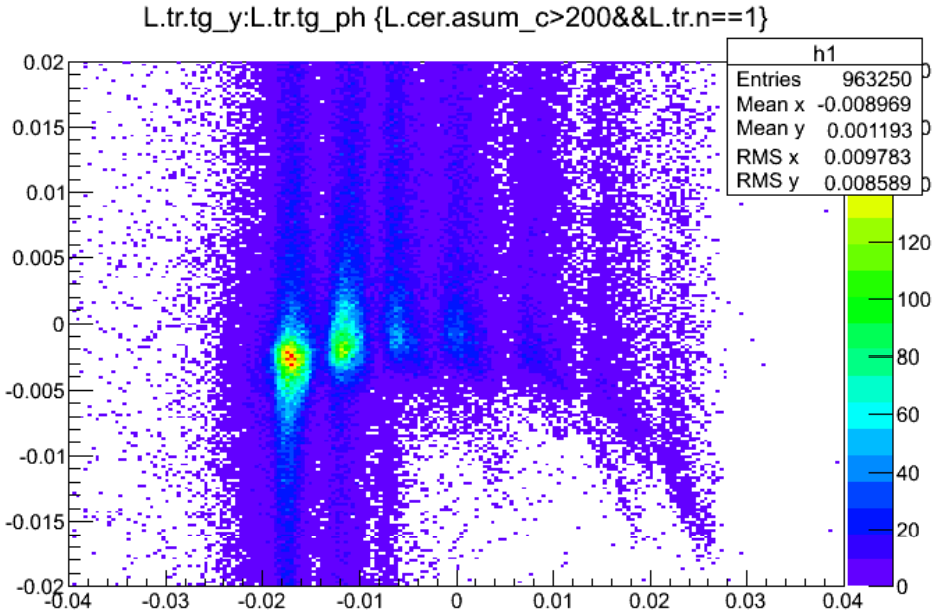


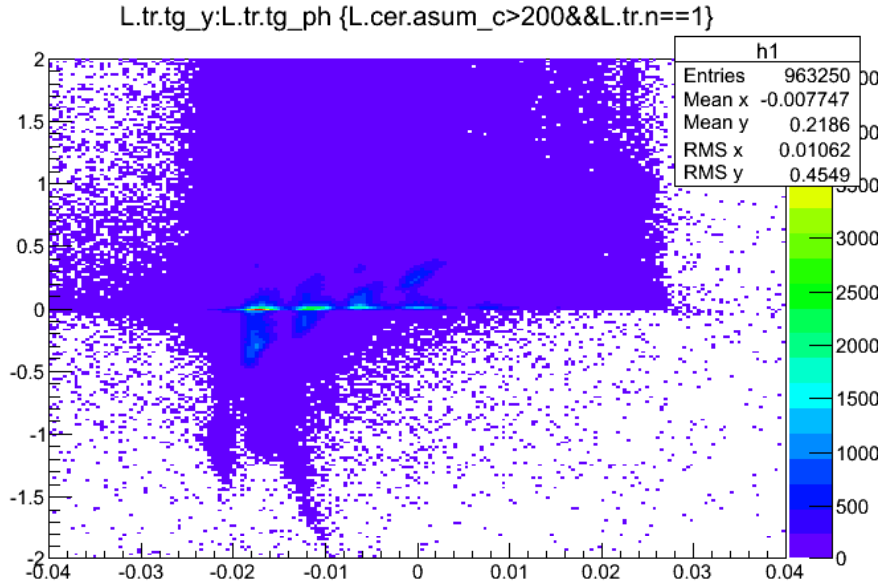
Next

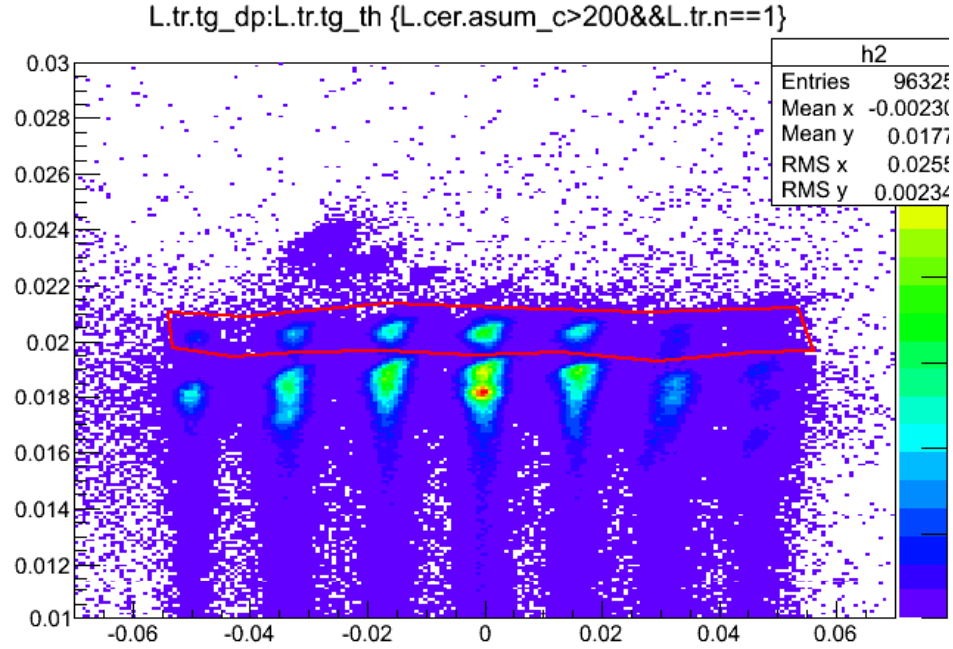
- Finish other dp scan runs
- Other suggestions from this meeting

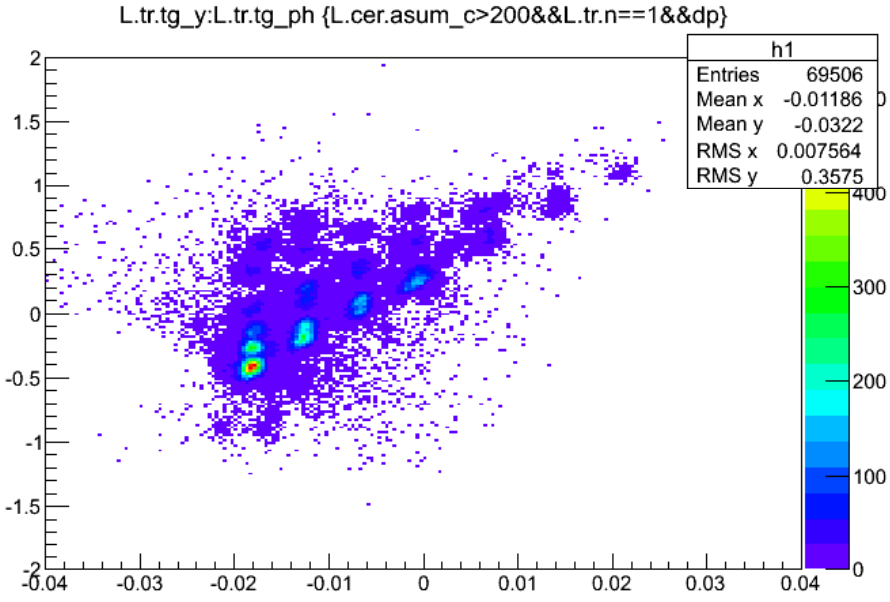
- Pointing

Backup


L.tr.tg_y:L.tr.tg_ph {L.cer.asum_c>200&&L.tr.n==1}
h1
Entries 963250
Mean x -0.008969
Mean y 0.001193
RMS x 0.009783
RMS y 0.008589


L.tr.tg_y:L.tr.tg_ph {L.cer.asum_c>200&&L.tr.n==1}
h1
Entries 963250
Mean x -0.007747
Mean y 0.2186
RMS x 0.01062
RMS y 0.4549


L.tr.tg_dp:L.tr.tg_th {L.cer.asum_c>200&&L.tr.n==1}
h2
Entries 96325
Mean x -0.00230
Mean y 0.0177
RMS x 0.0255
RMS y 0.00234


L.tr.tg_y:L.tr.tg_ph {L.cer.asum_c>200&&L.tr.n==1&&dp}
h1
Entries 69506
Mean x -0.01186
Mean y -0.0322
RMS x 0.007564
RMS y 0.3575

Snake
Data

Delta (Dp)

Release the dp cut on data