Update

1. RHRS target y calibration (preliminary)
2. Mismatch

Min Huang

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RHRS Target y Calibration

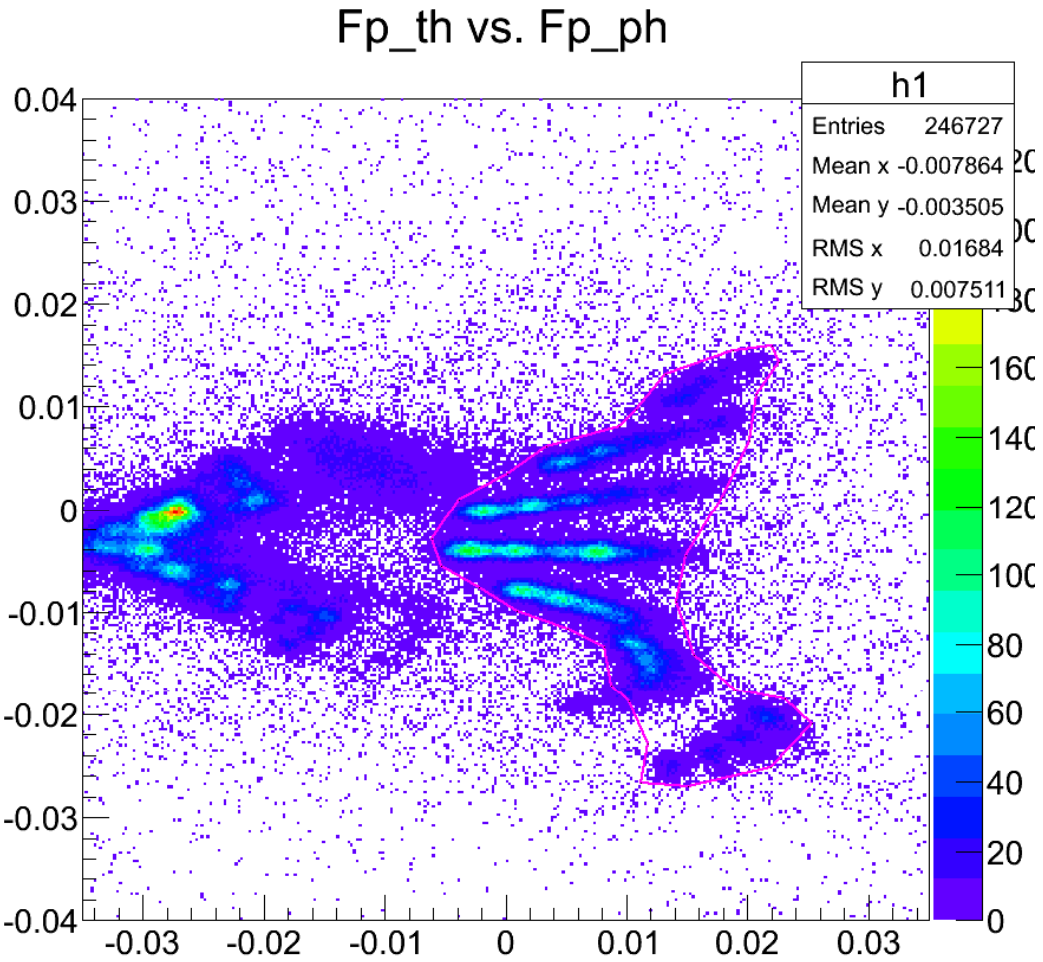
- Settings
  - Beam energy 2.253GeV
  - 0T target field at 6 deg, Gep target magnet config
  - Good septum
- Optics runs
  - Beam position scan (-4,0) (0,0) (4,0)(mm) at dp= -3.5%
  - 22256, 22259, 22254

Matrix Target y Calibration

- Start from initial matrix and lowest possible x order of each (theta, y, phi) term
- Add a step to prevent mis-assigning sieve hole ID

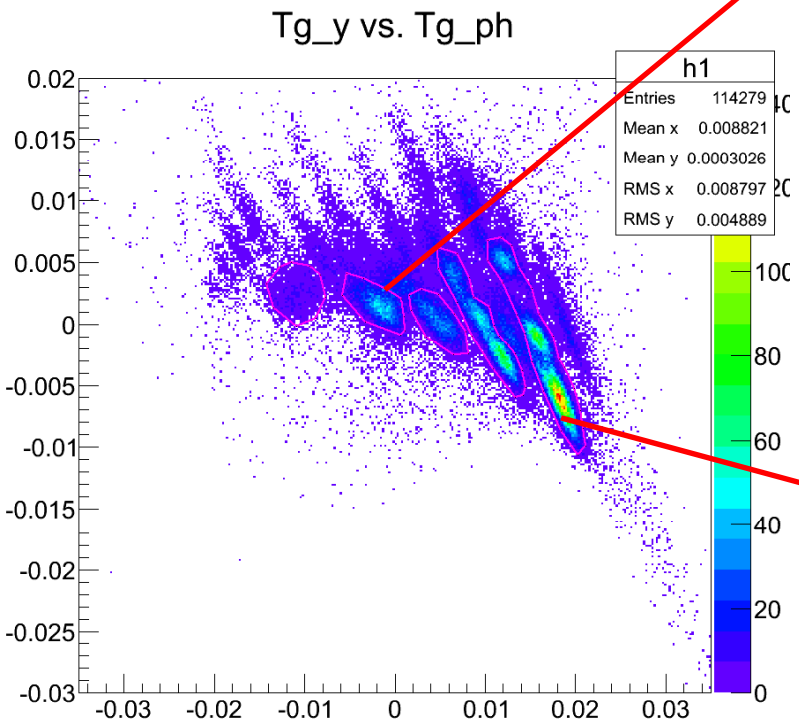
Steps of cuts

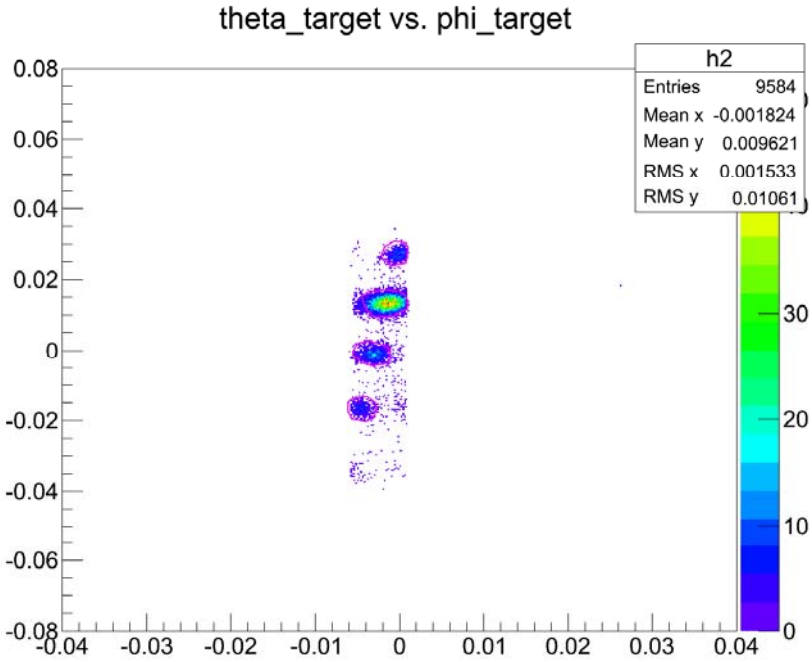
1. Fp_th vs. fp_ph pre-cut for the whole run

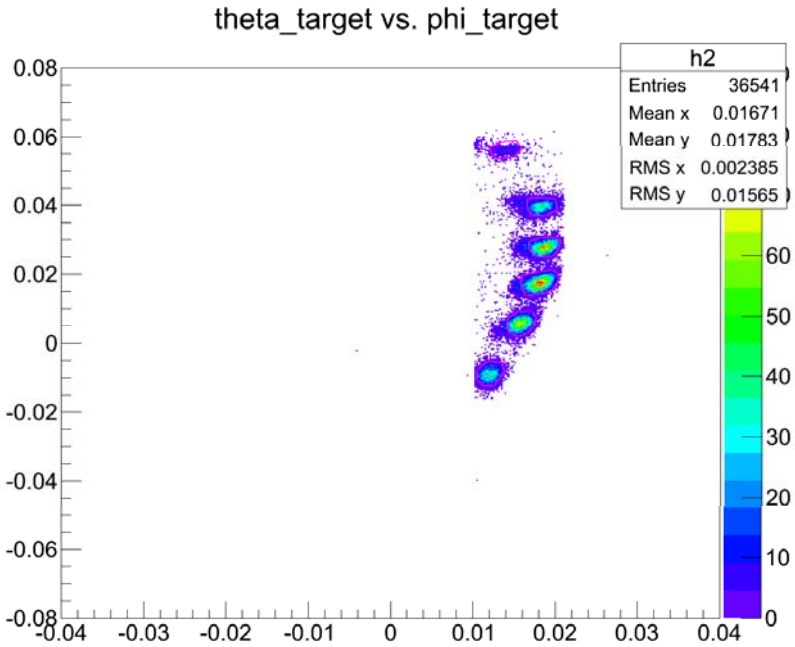


Steps of cuts

2. Cut on each column of sieve holes prevent mis-assigning hole IDs

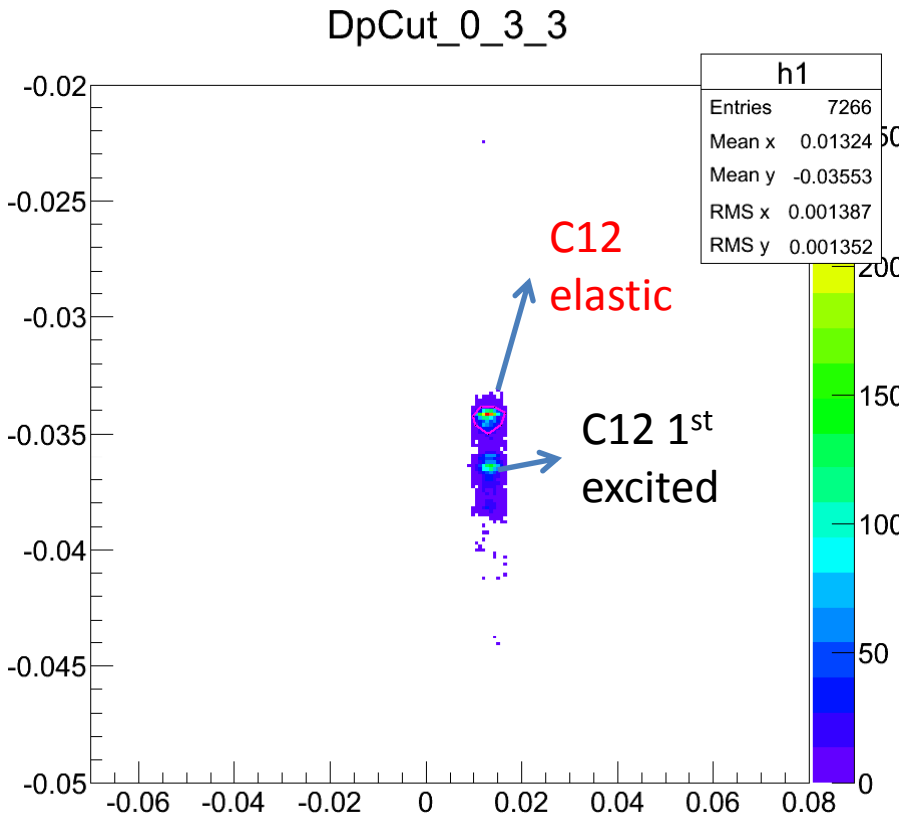






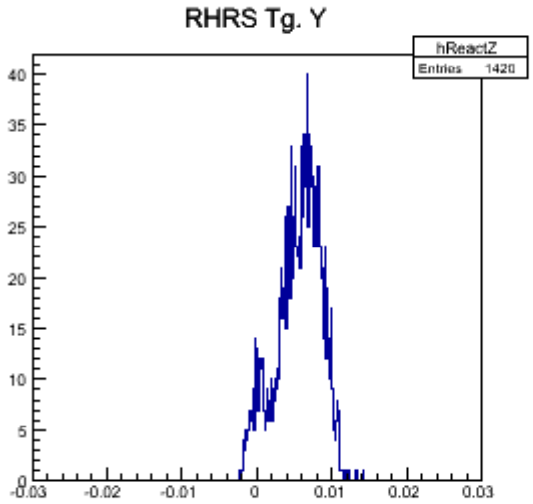
Steps of cut

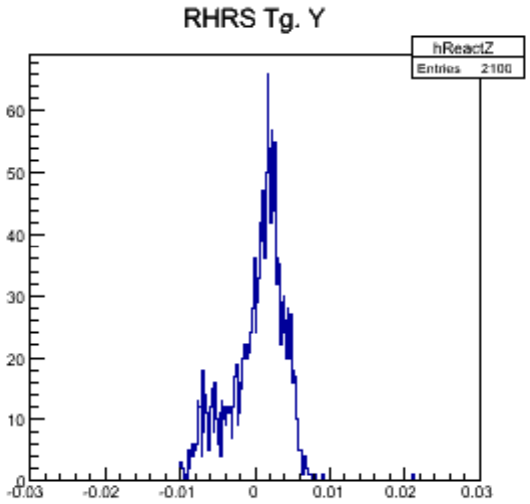
3. Cut carbon elastic for each hole

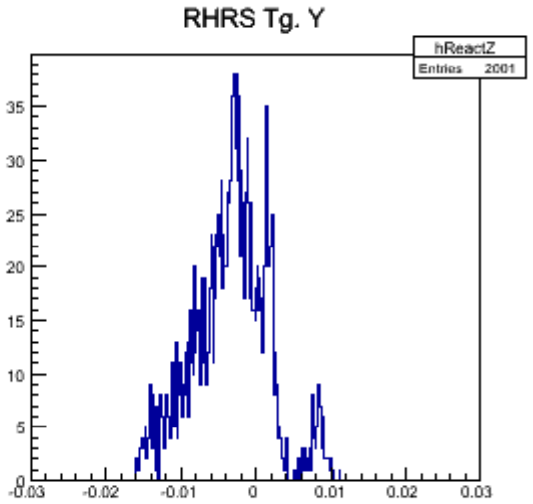


Matrix Target_y Calibration

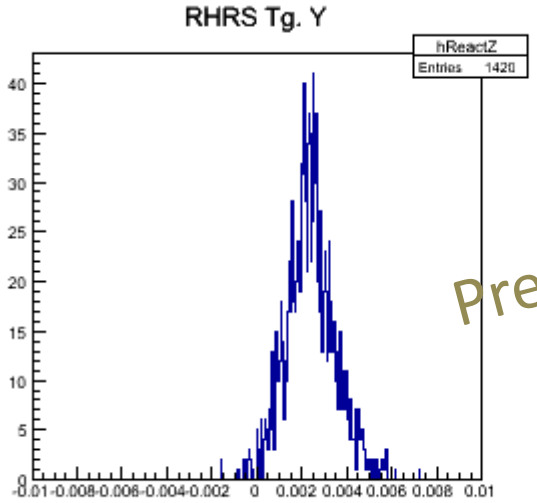
Initial pattern

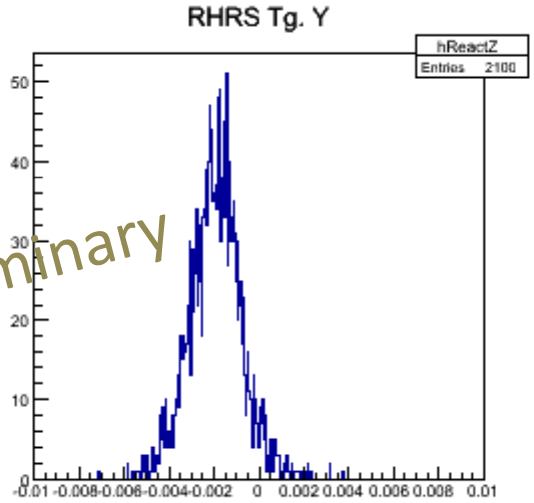


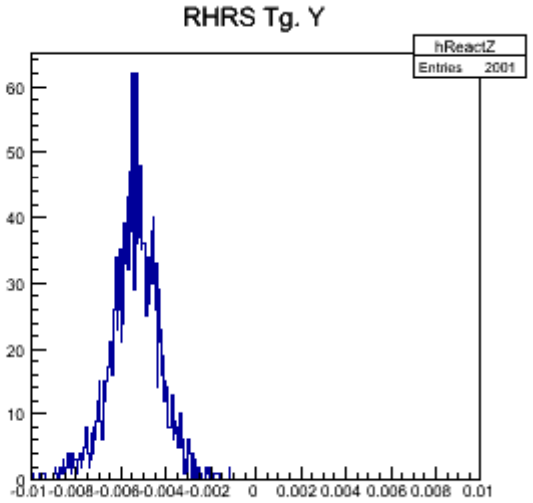




After 1st iteration







Preliminary

Transport Functions Package

- Goal: Understand the mismatch between optics data calibration & snake model fitting
- Setting in Snake: 0 target field, 484816 good septum, 2.251 GeV e-, point (unrastered) beam
- Fitting functions
  - Forward
  - Reverse
- See talks by Chao/Jixie for simulation results

Next

- Any suggestions from this meeting
- LHRS straight through target y
- 2^{nd} iteration of matrix angles and dp
- Pointing calculation and uncertainty