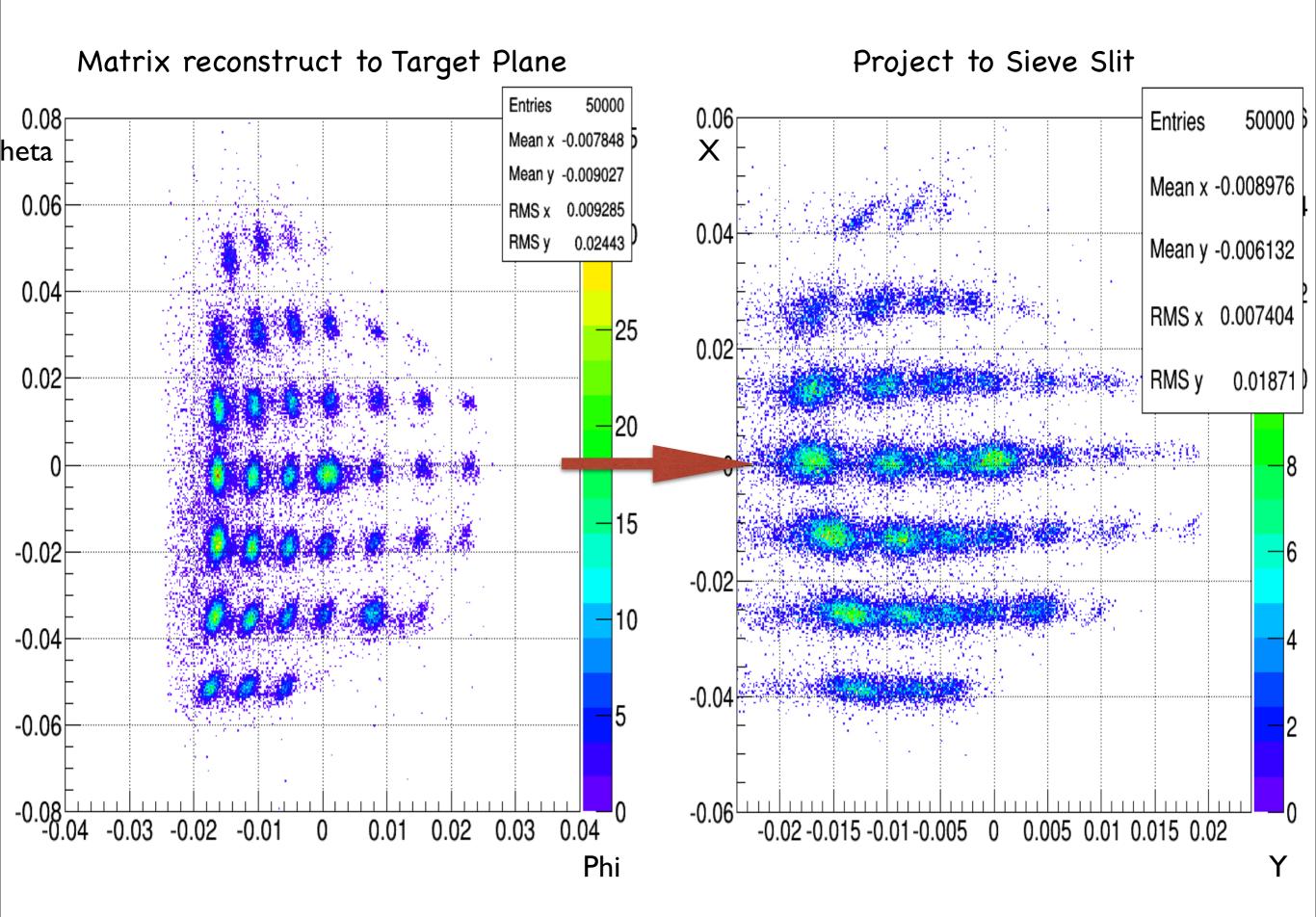
Optics Status Update

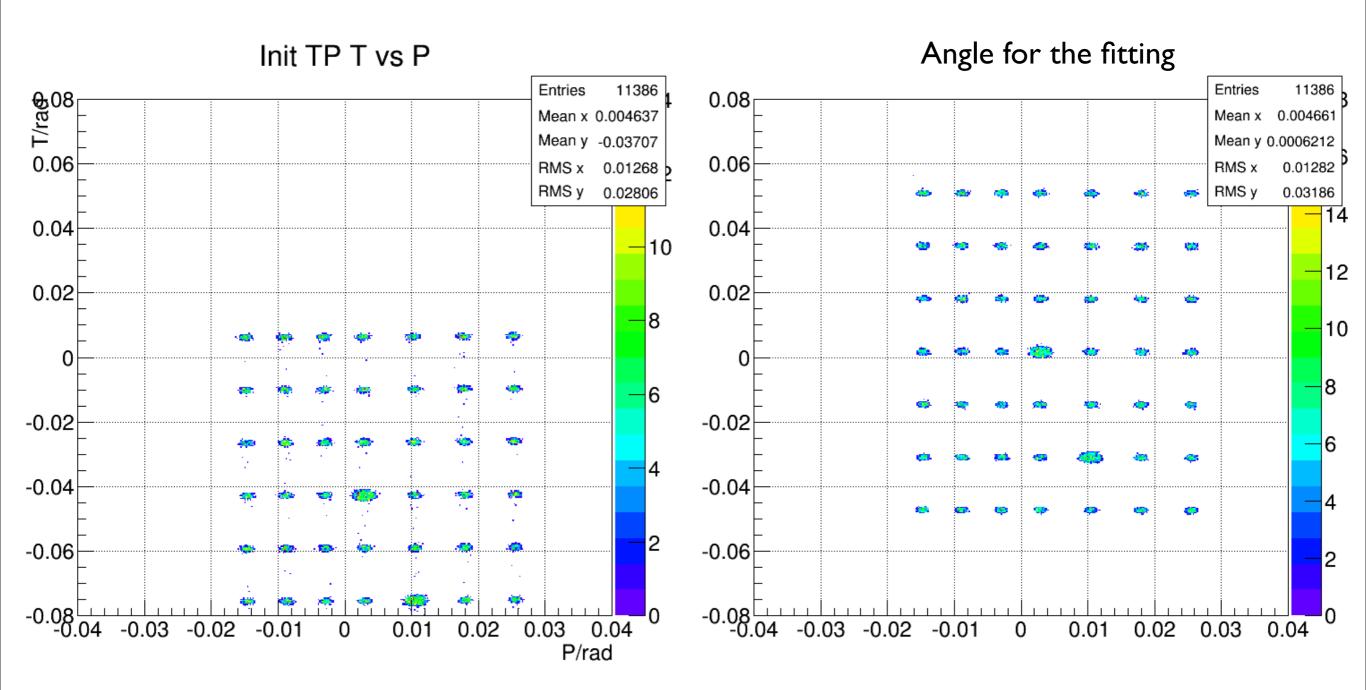
Chao Gu

Optics Status

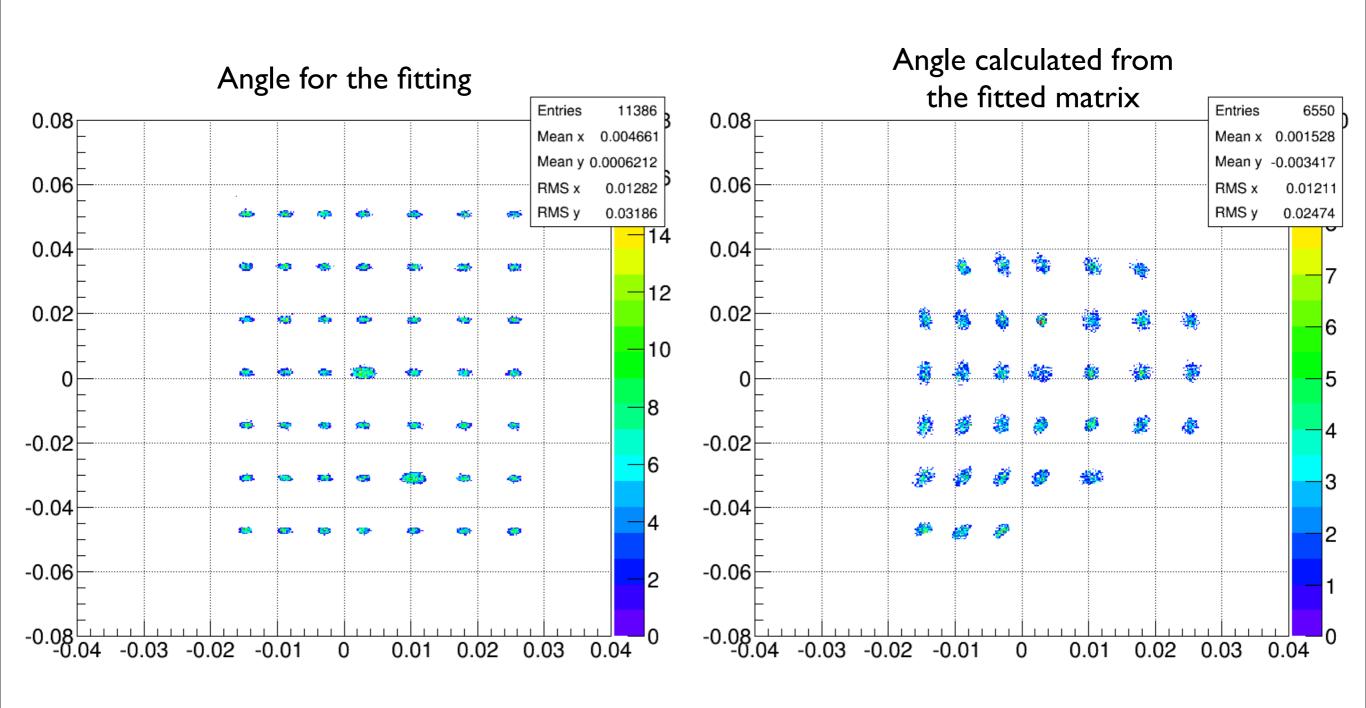
- With target field
- Start with the "best" setting:
 - Beam energy 2.253GeV
 - Target field 2.5T
 - 48-48-16 Septum magnet
 - dp = 0%



- Run simulation to decide the theta and phi used in the fitting
 - Assuming point beam, set to the average value of BPM readout

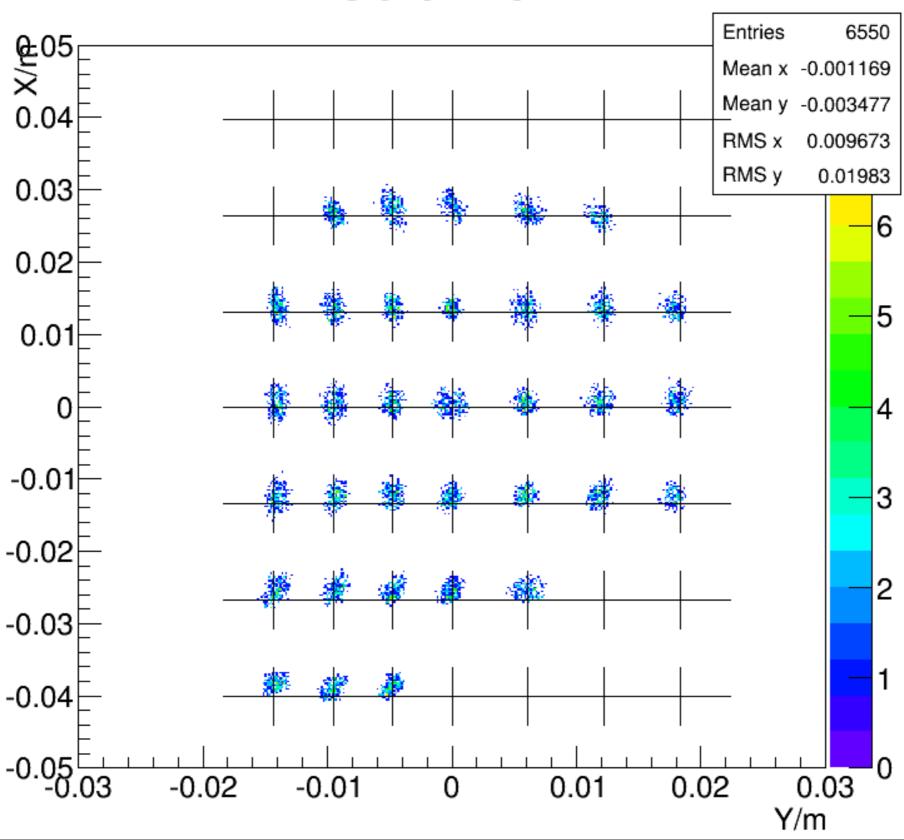


Original calibration package has been modified to use these value

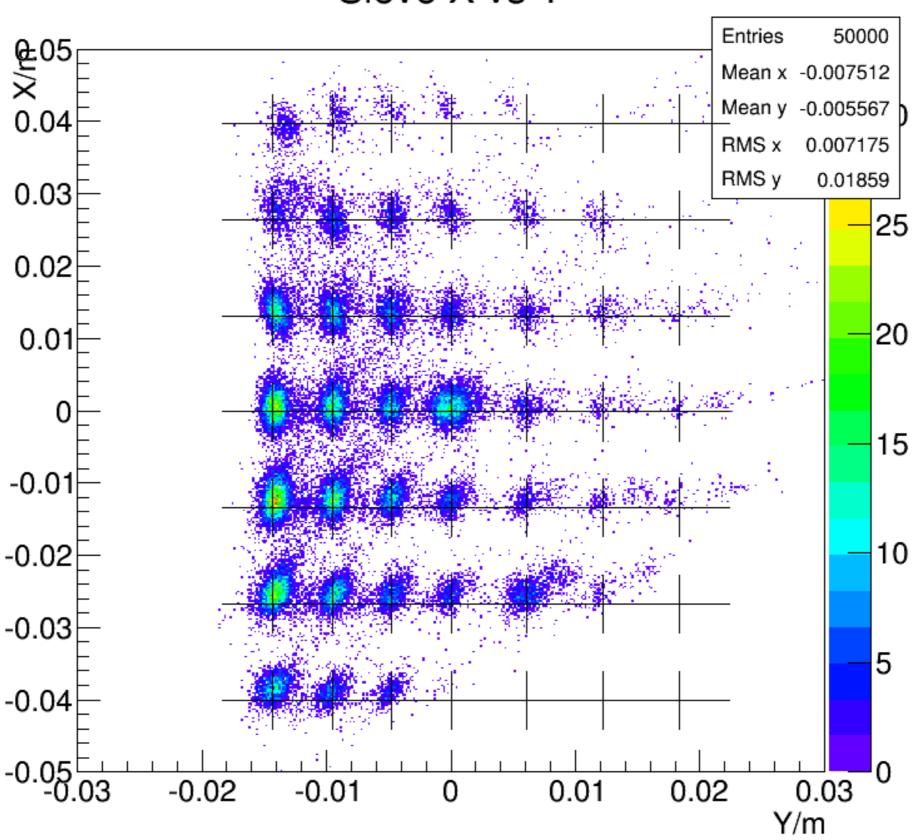


- · Reconstructed sieve pattern is decided by:
 - The beam position
 - The reconstructed angle
- Two improvement:
 - Since the target y calibration is not very good, directly use BPM readout as beam position input
 - Change the angle reconstruction matrix from the straight through version to the calibrated version

Sieve X vs Y



Sieve X vs Y



Optics Status

TODO:

 We took more beam position scan data with target field, use similar method could also calibrate y matrix