

SRC Weekly Meeting June 26, 2012

Revisit Optics for LHRS,





LEFT Optics

Re-Calibration of phi



SIEVE X & Y RECONSTRUCTION → RECALIBRATION OF Φ IS NEEDED



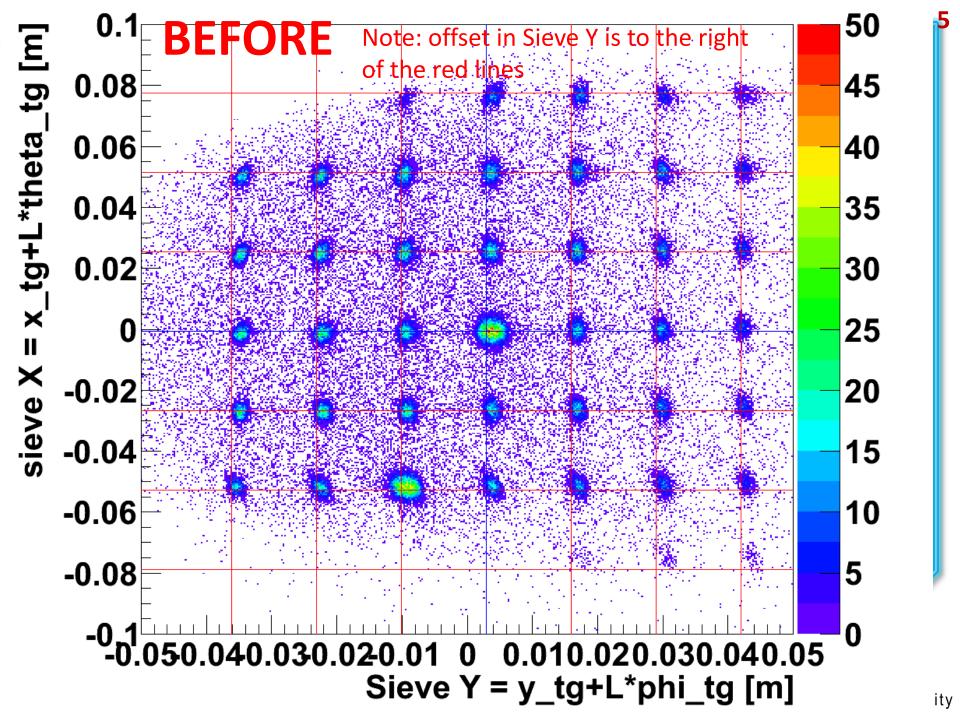


Sieve X Y before calibration

❖With scale Effect on the vertex Z, the change is made to target_Y calculation. This effect only the phi variable as the Sieve Y defined as:

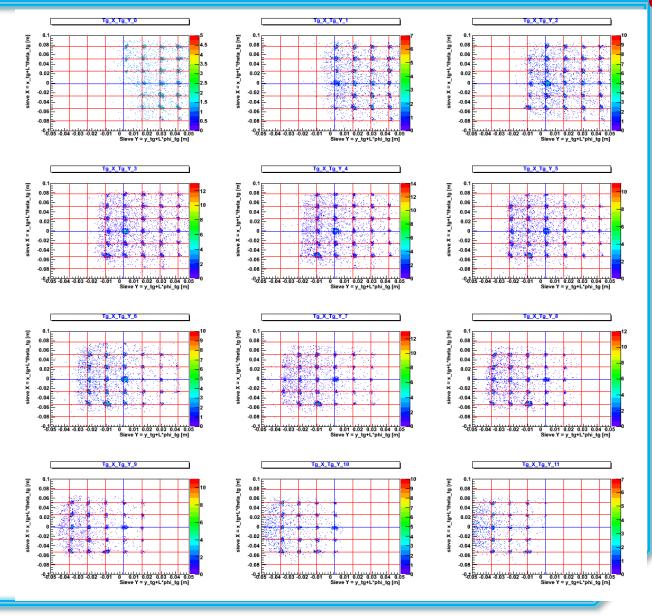
$$ightharpoonup Y_{\text{sieve}} = L*phi_{\text{tg}} + Y_{\text{tg}}$$





Sieve X Y, per foil before calibration

Run 1238 C12- 13foils At 16.5 degree



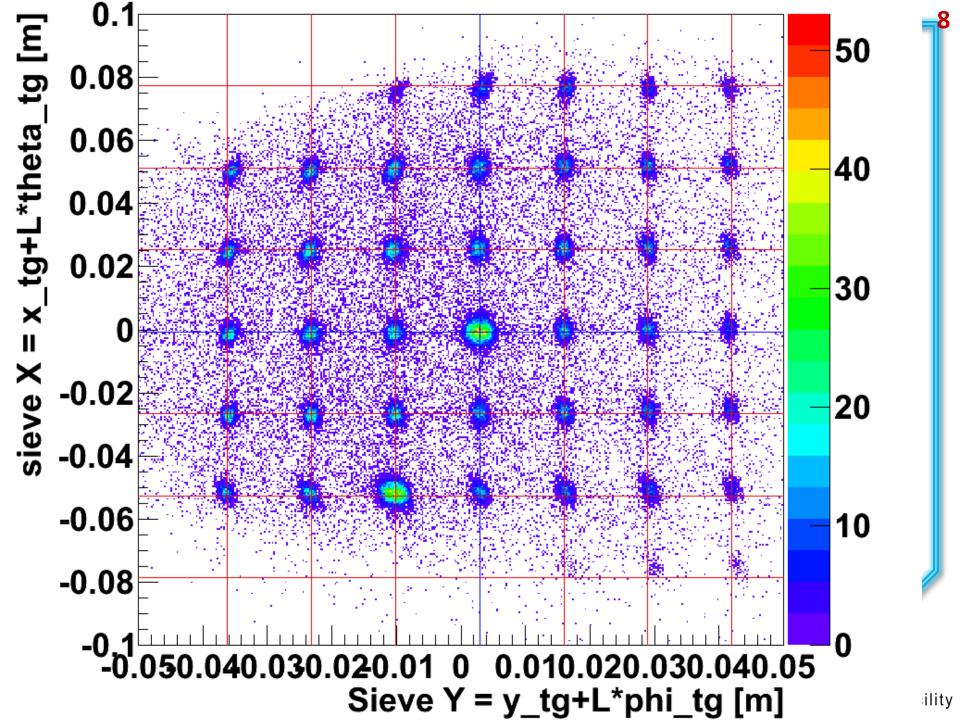




Sieve X Y after calibration

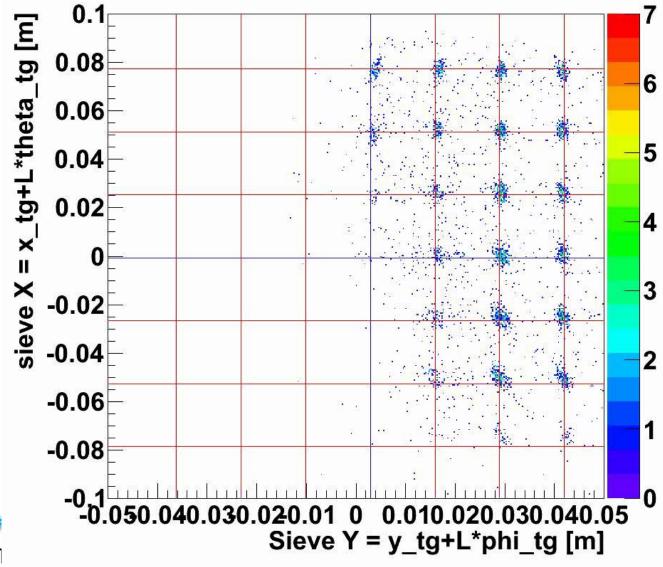
- **❖Run 1238**
- **♦ C12- 13 foils**
- **❖** At 16.5 degree
- **❖Sieve In**





Sieve X Y, per foil after calibration

Run 1238 C12- 13foils At 16.5 degree



Tg_X_Tg_Y_0

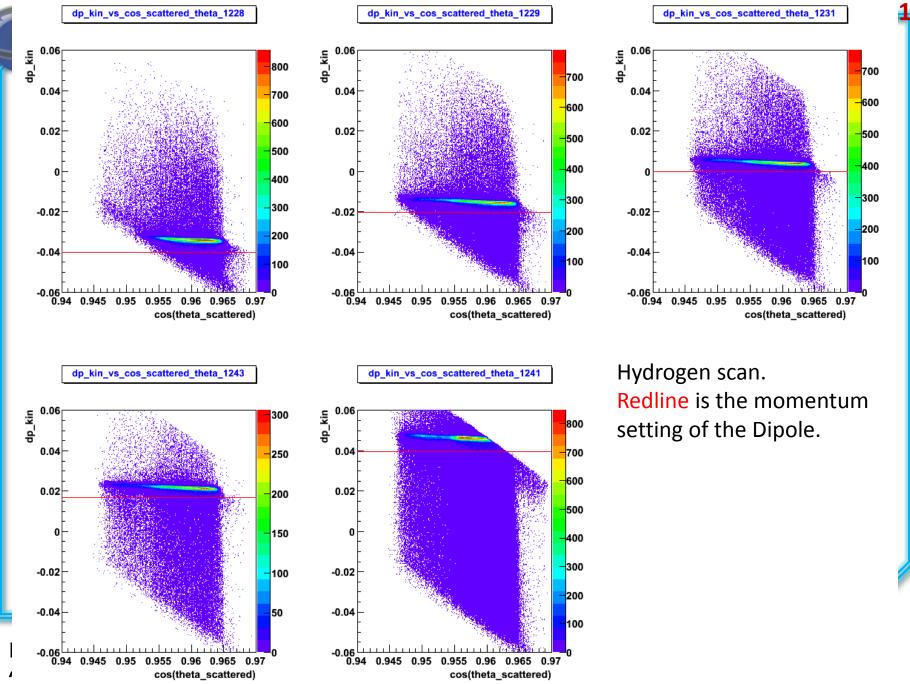
Navaphon Muangma (1 "SRC Weekly Meeting"

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DP SCAN ON HYDROGEN



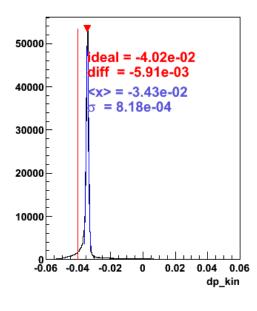


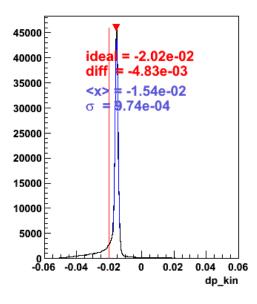


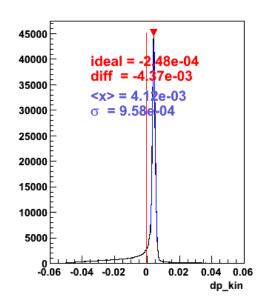




dp_kin_1231

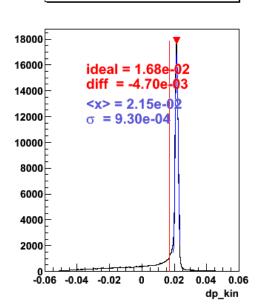


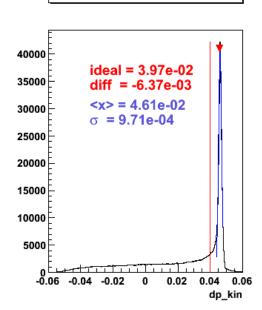






dp_kin_1241





Hydrogen scan.

Redline is the momentum setting of the Dipole.

Focus on the run 1229, 1231, and 1243 where we have full acceptance, the ideal-mean is approximately the same

Left HRS optics summary

- ✓ Vertex
- ✓ Phi
- √ Theta
- Momentum (half done)

