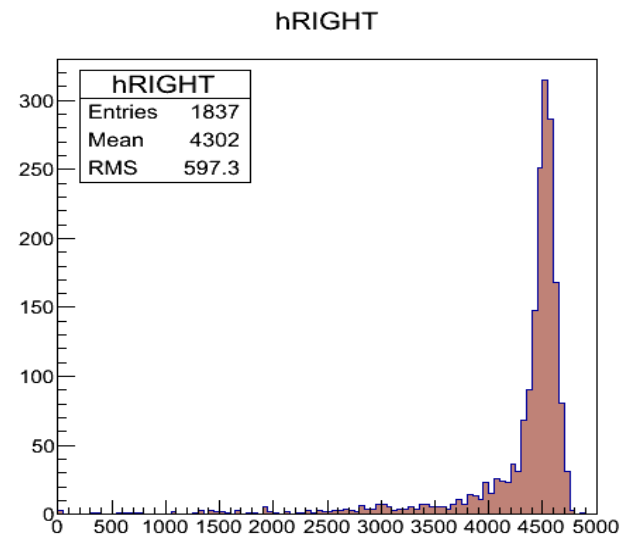
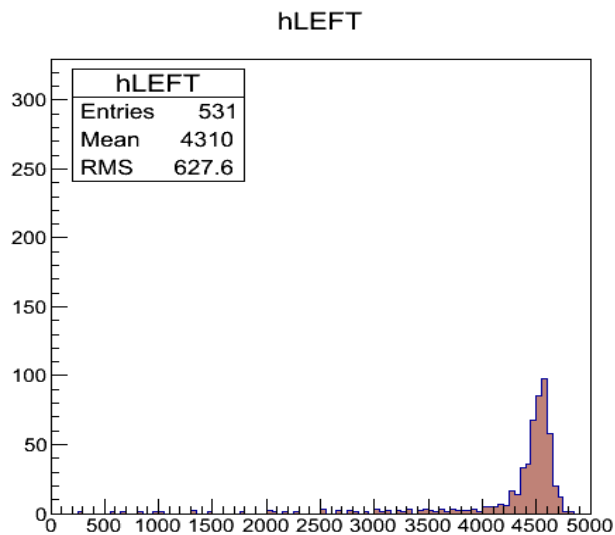
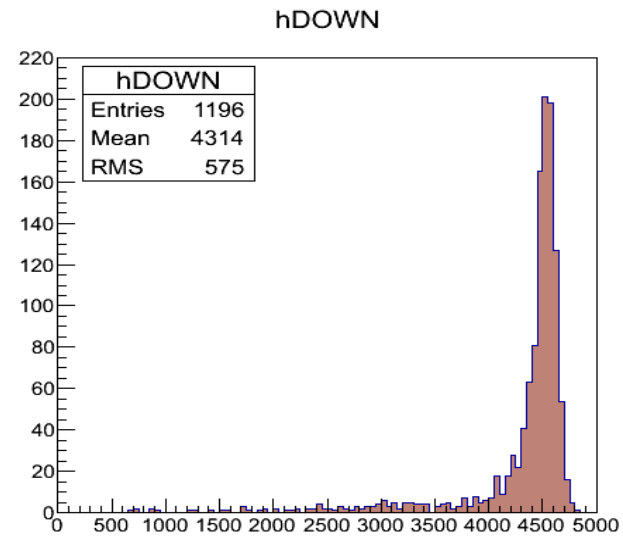
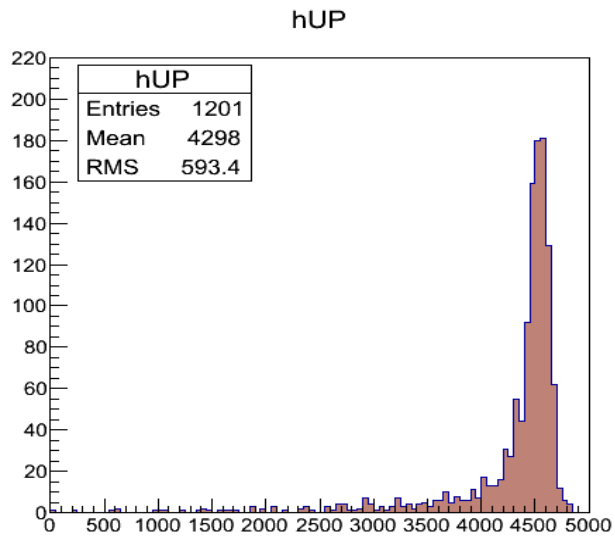


Simulated Asymmetry

- Read in Xavier's data (I, S, T, U)
- Generate Theta and Phi. Calculate Cross section using interpolation of Xavier's data (errors $< 1/10^3$). Do a rejection roll, if good generate primary, if bad pick new theta and phi and try again.
- $S(172.6 \text{ deg.}) = -0.52$ according to Xavier's data.

Simulated Asymmetry



Simulated Asymmetry

Up-Down Asym (%): 0.208594 ± 2.04251

Left-Right Asym (%): -55.152 ± 1.71419

- Assume 100% vertical Polarization.
- No spin flip yet but easy to do.
-

Next Steps

- Need to extend data to a range of energies +/- 50 keV.
- Need f & g functions for spin tracking through multiple scattering.
- Begin building MottScatteringProcess.