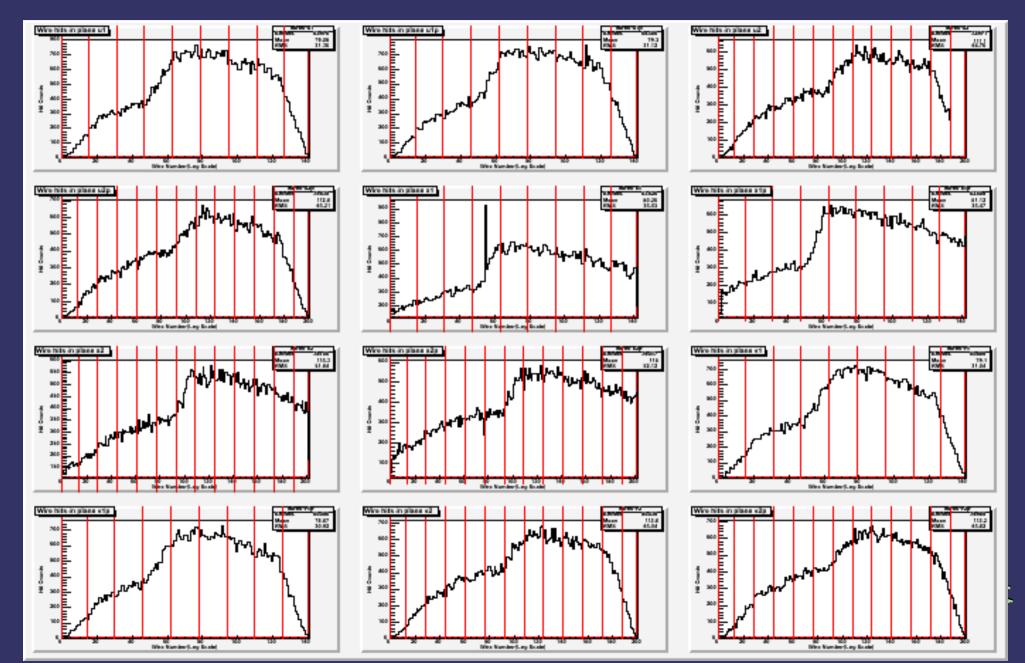
Wire Chamber 1+2 *Performance During* π⁰

Xin Qian

Duke Unversity







Hit Pattern

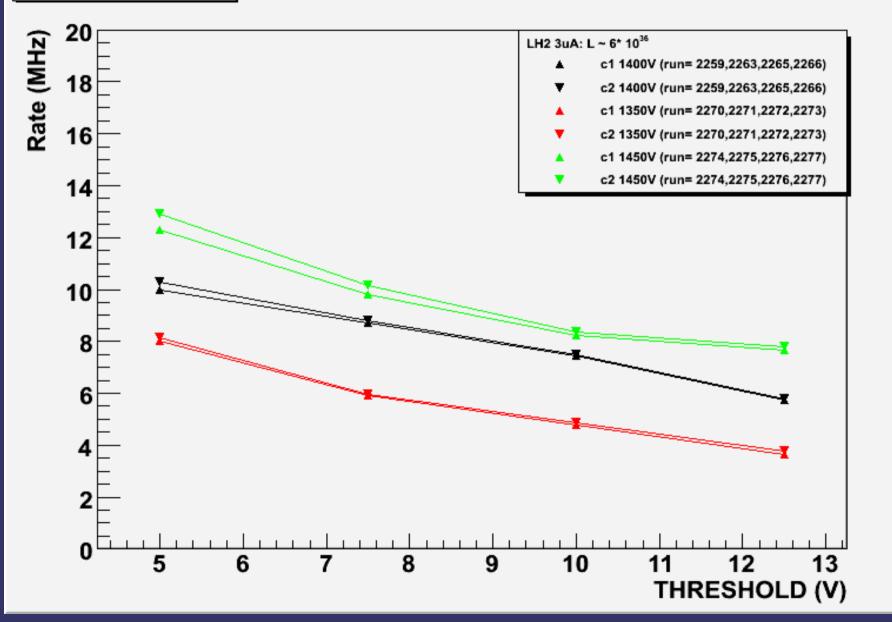
- OK in general.
- One busy wire, possible due to cable
- More Noise in the second half of the chamber
 - Correspond to low energy electrons, bending the opposite way.

 - The kink should due to acceptance cutoff



Hydrogen L ~ 6x10³⁶

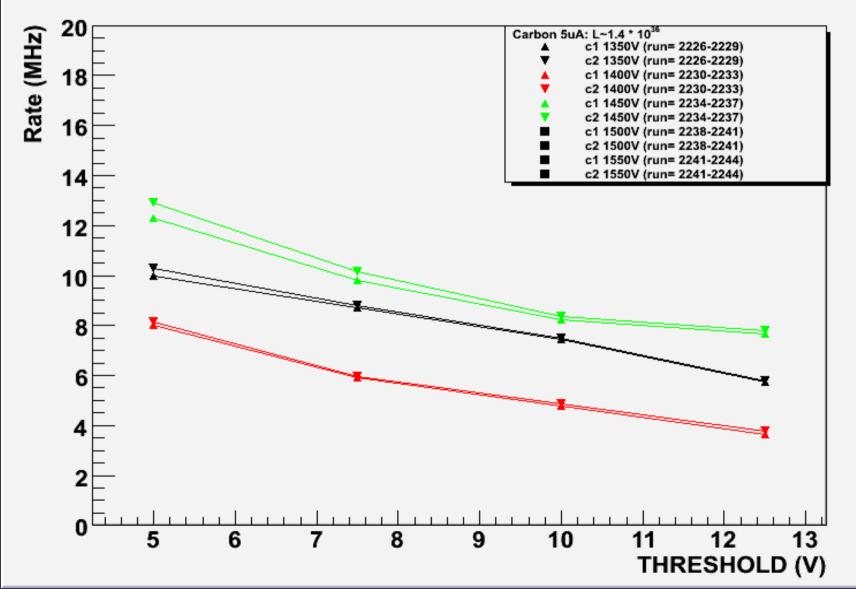
Chamber rate



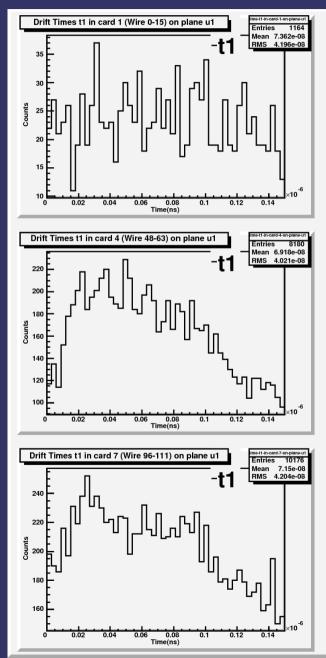
Carbon L ~ 1.4x10³⁶

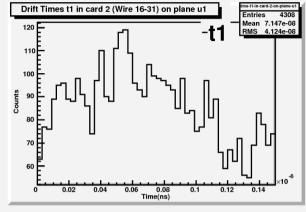
TRANSVERSITY L ~ 10³⁶

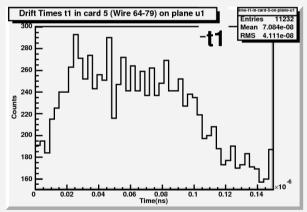
Chamber rate

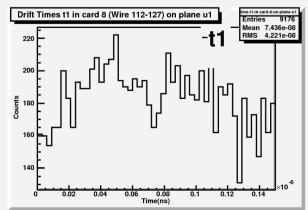


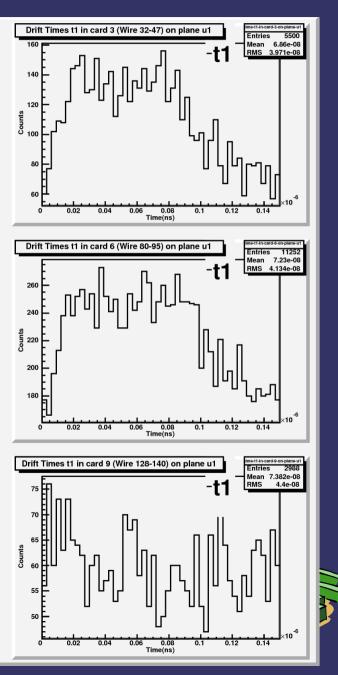






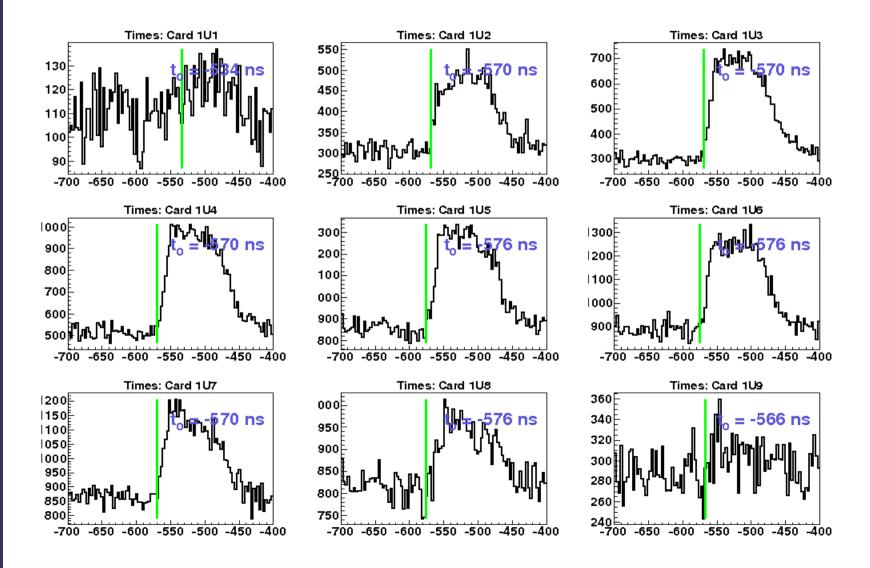




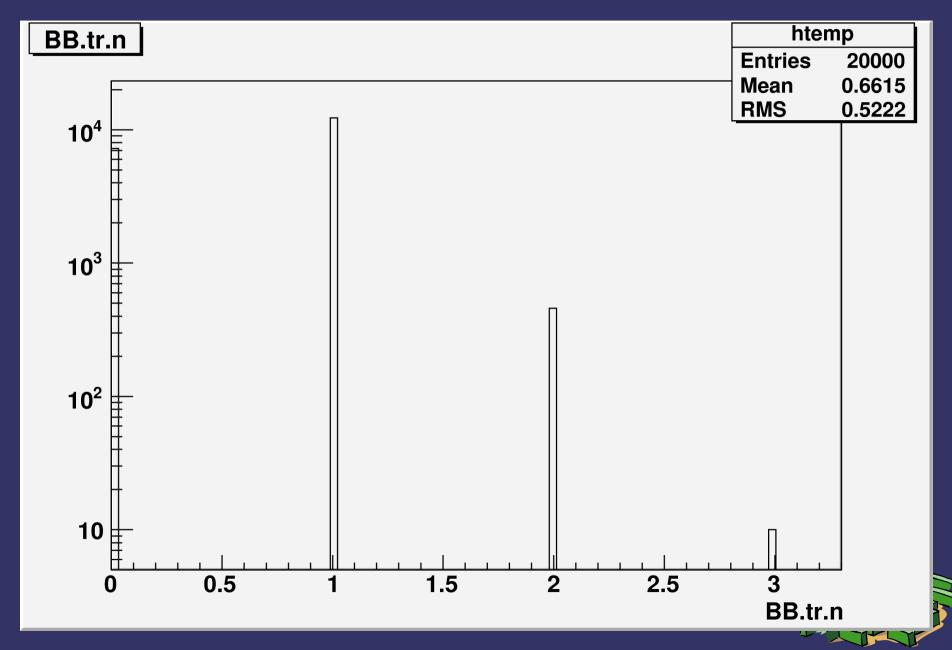


Drift Time

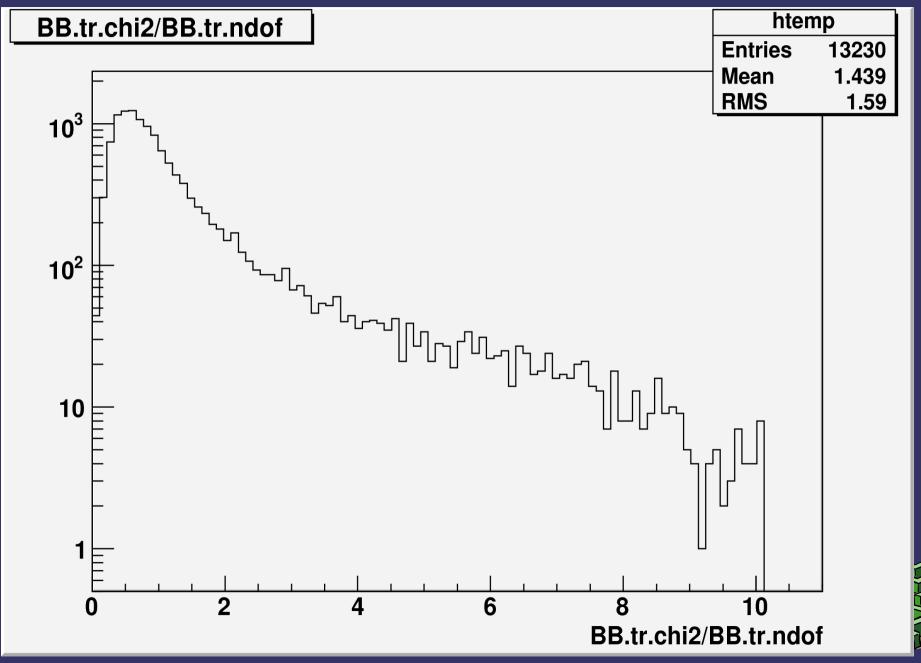
Thanks to Khem



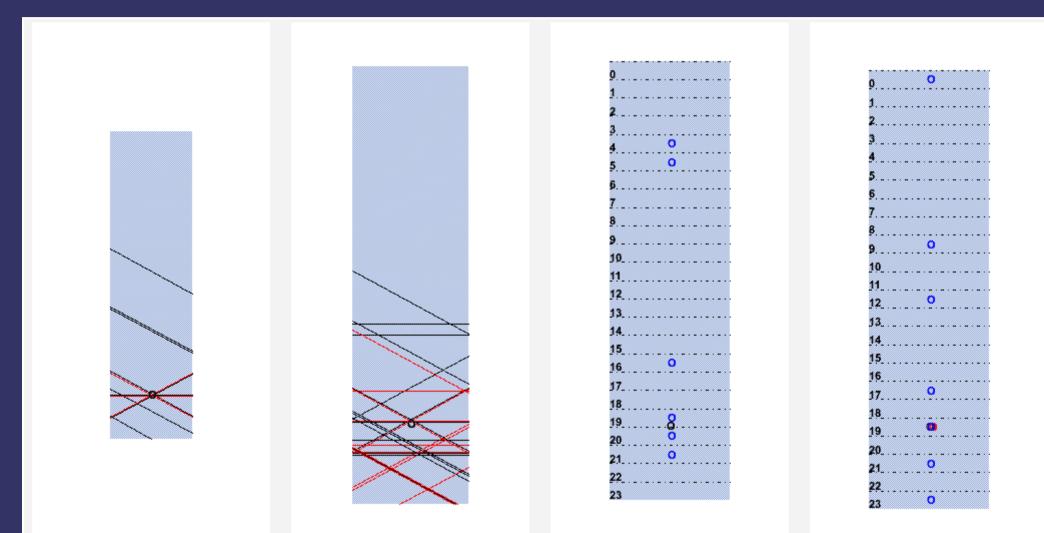




Tracking (Ole)

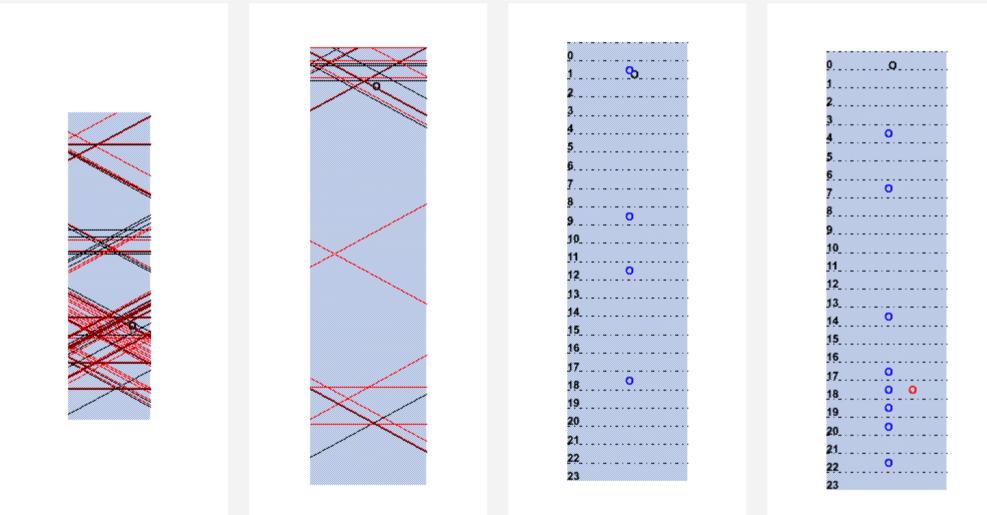


Event Display



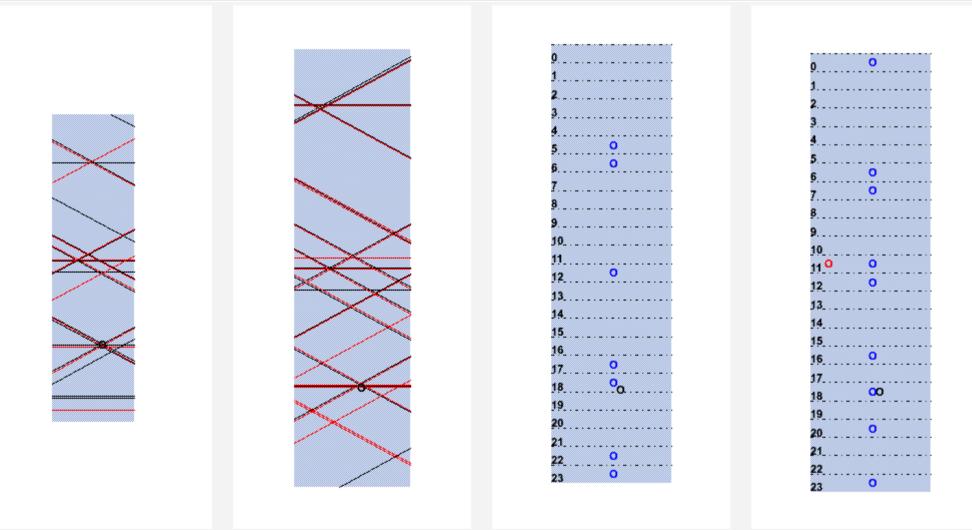


Event Display



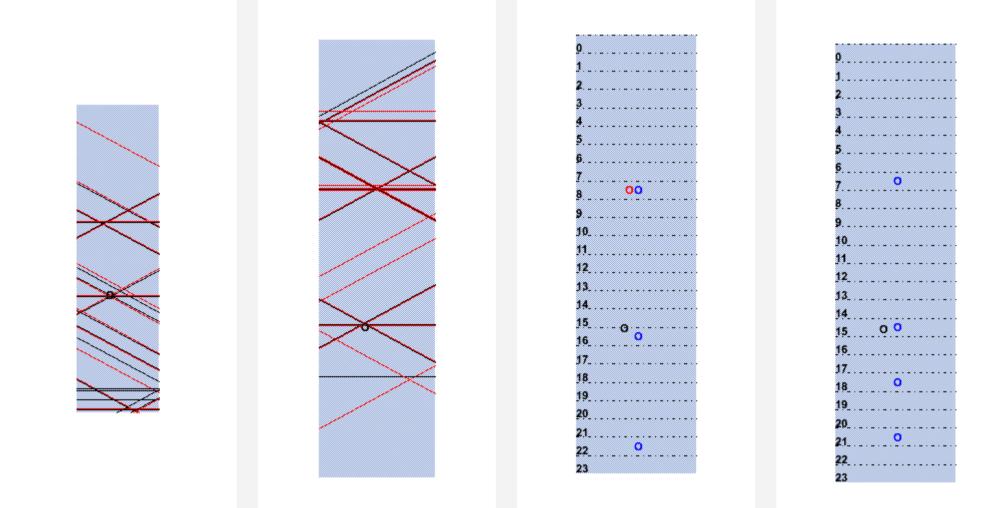


Still Some Problems (Database? Tracking?)



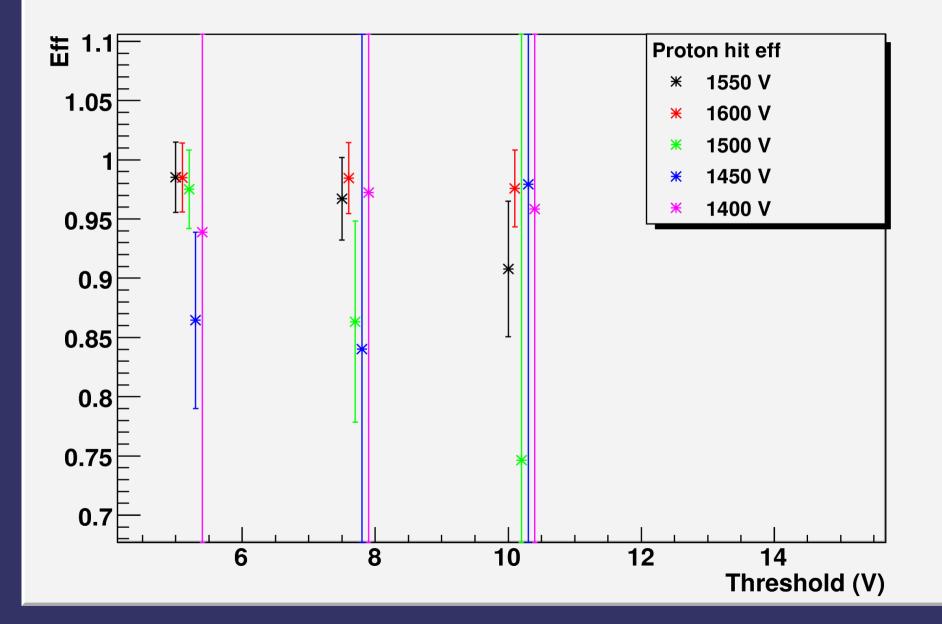


Still Some problems (Database? Tracking?)



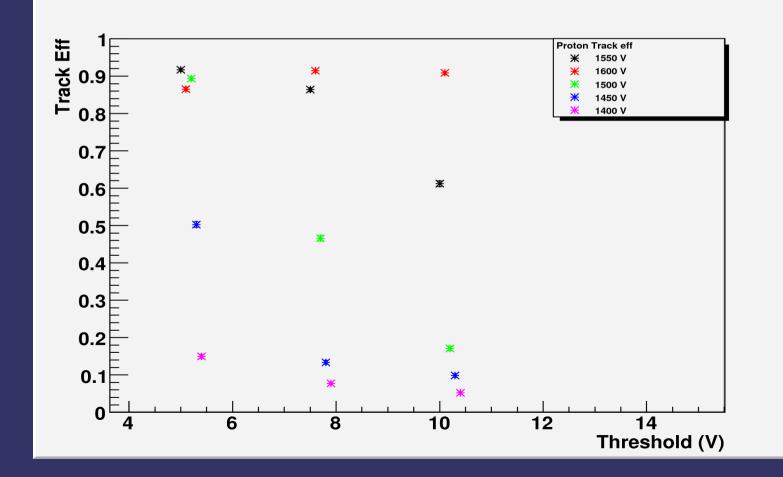


Hitting Efficiency (Ole)



Naive Tracking Efficiency (Khem) Add cut on Left arm PID. Add cut on Trigger Type. Add cut on Coincidence Timing.

No cut on BigBite Scintillator ADC.





BigBite Software

- Need to add in shower system?
- Two planes firing (Not an issue for TRANSVERSITY)?
- Optics?

