## E02-013 Analysis Update

Seamus Riordan

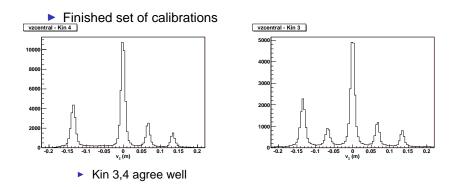
August 5, 2009

(日)

æ

- Setting up genbox
- Continuing Replays
  - Most of the way through kin3
  - Kin 2 done need some analysis
  - Asymmetry preliminarily comes out close to as before!
- Optics
  - Have set of vertex calibrations
  - Need to do momentum

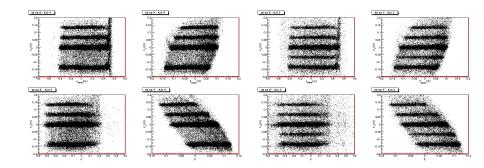
(1日) (1日) (1日)



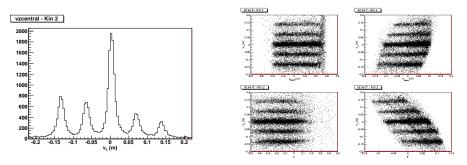
ヘロア 人間 アメヨア 人間アー

æ

## **Vertex Calibration**



◆□▶ ◆舂▶ ◆注▶ ◆注▶ ─注。



- Kin 2a is different foils runs do not exist for 2b
- These need to be replayed with good DC database
- All previous replays have spacing of 0.6 cm

э

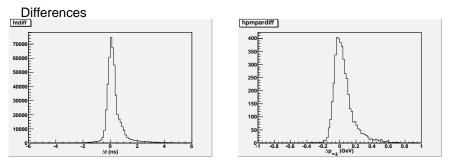
- Kin 2 pass 2 redux replay done
  - Needs thorough analysis! (tof offset calibration not carefully done)
  - Obtained preliminary raw asymmetry near what was found before!
- Found old post-processing files
  - Reproduces asymmetry close to previous analysis

・ 同 ト ・ ヨ ト ・ ヨ ト

Procedure for each event:

- Find events with matching raw event number
  - If match events, find matching neutron arm events
    - If match, calculate if agreement on neutral QE elastic
  - If no match, see if neutral QE

・ 同 ト ・ ヨ ト ・ ヨ ト

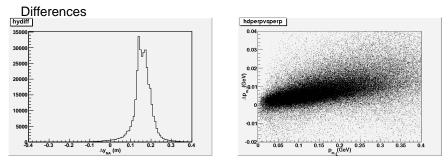


Time smeared fairly wide

(日)

2

## **Comparison Analysis**



Neutron arm y position is shifted about 18 cm for kin2, 3 (not 4)

< **12** ► < **3** ► <

э

	In Old	In New	
N neutral QE	736	627	
N Agree	460		
No trig event in other set	56	36	

For a few runs:	Reason in set			
FUI a lew runs.	Charge ID changed	8	5	
	W	5	6	
	pm,perp	26	15	
	pm,par	55	34	
	mm	41	27	
	no NA match to compare	72	46	

æ

- Look into differences between kin 2 runs
- Finish momentum calibration, momentum corrections to vz
- Come up with satisfactor kin 2b vertex reconstruction
- Need ToF resolution profile for MC re run MC with it