E02-013 Analysis Update

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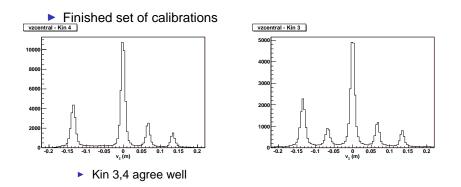
August 5, 2009

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- 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

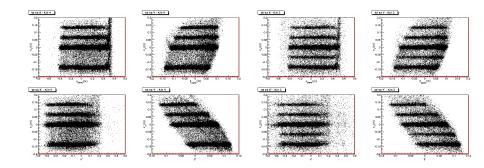
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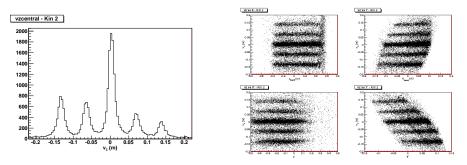
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Vertex Calibration



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- 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

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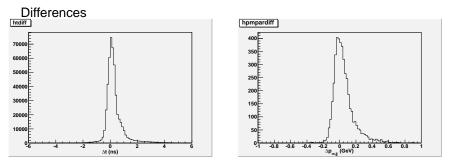
- Kin 2 pass 2 redux replay done
 - Needs thorough analysis! (tof offset calibration not carefully done)
 - Obtained preliminary raw asymmetry near what was found before!
- Found old post-processing files
 - Reproduces asymmetry close to previous analysis

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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

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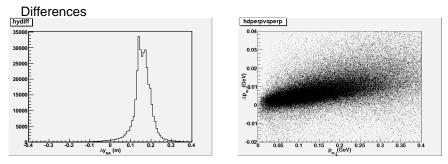


Time smeared fairly wide

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Comparison Analysis



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

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	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	

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- 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