

E05-102 (e'd) Run Coordinator Update

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May 19, 2009

- ▶ Started running on E05-102, e'd
 - ▶ Measuring A_x, A_z in ${}^3\overline{\text{He}}(\vec{e}, e'd)$
 - ▶ Additional measurement of G_E^n at $Q^2 = 0.4 \text{ GeV}^2$
- ▶ Production has been very smooth

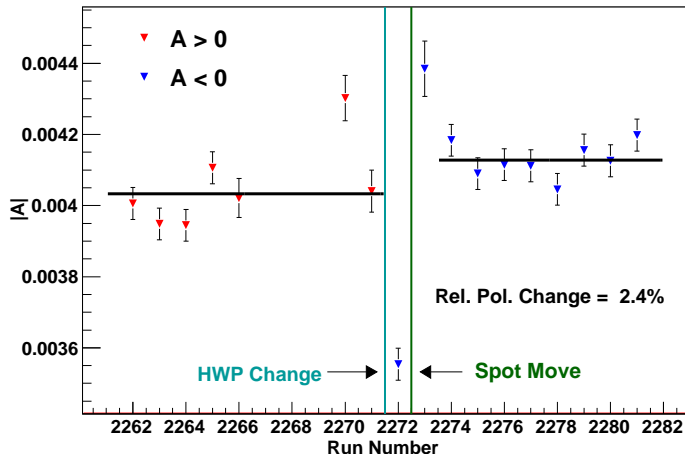
	ABU	BANU	BNA
Hours	113.6	16.9	29.5

- ▶ Tuesday, May 12
 - ▶ Hall locked up from restricted access
 - ▶ Beam permit at 18:15
 - ▶ Started with deuterium calibration runs overnight
- ▶ Wednesday, May 13
 - ▶ Started polarized ^3He at 09:00
 - ▶ 18:00 Right Q1 trips off - trouble getting up past 500A, eventually restored

- ▶ Thursday, May 14
 - ▶ Beam studies 07:00-14:00
 - ▶ Performed minor DAQ work
 - ▶ Jack/Heidi work on left/right Q1:
 - ▶ Polarities of Q1s read properly
 - ▶ Modified RHRS Q1 interlocks
 - ▶ 15:00 - Moller measurement, $83.4 \pm 0.2 \pm 2.0\%$
- ▶ Friday, May 15
 - ▶ HWP Change/Spot change at 11:30 - relative asymmetry increase of 2.4% seen in BigBite singles between before and after
 - ▶ Trouble locking Compton cavity

Polarization Change

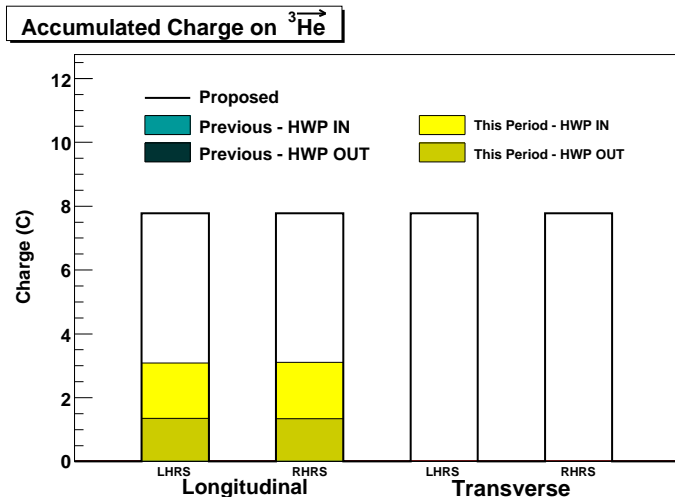
BigBite E Raw Trigger Asymmetries



- ▶ Saturday, May 16
 - ▶ 14:00 - RHRS Q1 current readback fails
 - ▶ Continue running using gaussmeter readback to set ρ_0
 - ▶ 16:00 - ROC10 crash - access to reset
 - ▶ 19:00 - No beam 2 hours for MCC vacuum problems
 - ▶ 23:30 - No beam 4 hours for MCC vacuum problems
- ▶ Sunday, May 17
 - ▶ Smooth running

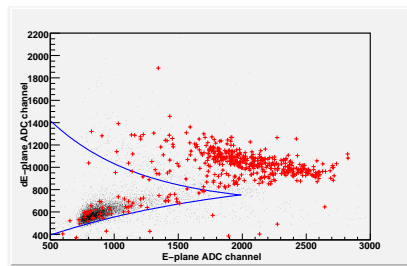
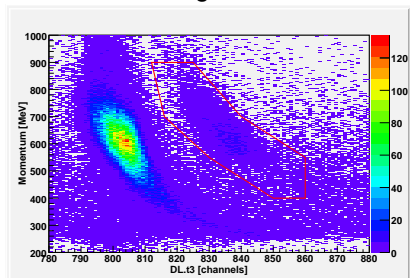
- ▶ Monday, May 17
 - ▶ 08:30 - Take reference cell deuterium, N_2 , foils runs
 - ▶ 13:00 - Smooth production running for the rest of the day
 - ▶ Trouble locking Compton cavity
- ▶ Tuesday, May 18
 - ▶ Beam studies for day shift
 - ▶ Changing target polarization orientation to transverse

Production Accumulated Charge



Accumulated about 20% of anticipated charge

Deuterium Target



Next few days:

- ▶ Start transverse production data collection
- ▶ Ramesh Subedi takes over as RC Wednesday
- ▶ Moller on Wednesday