Accelerator Status Report
5/21/2008

Accelerator

Machine energy at 1130 MeV/pass Asymmetric setup NL = 555 MeV, SL = 575 MeV

- **Done at the request of the Halls to provide higher polarization to A and C without changing the energy**
- **East spreader and re-combiner orbits will not be zero**
- **BLM faults (AT07, 3C12….) appear to be caused by RF instabilities**
- **BLM faults may be aggravated by**
  - **Warm RF drift (Laser or pre-buncher phase, bunchlength , ect)**
  - **Aperture Steering**
  - **Changes in path length**
- **Watch for reoccurring magnet mismatches or trim rack problems**
- **Keep KREST running**
- **May need to adjust laser phases after a spot move**
- **Check for configuration error in the MOMOD system**
- **Channel access semaphore problem has returned**
  - **Channel access has been opened for RF on call support**
- **Do not change the hall dipole string settings to correct for energy shifts without PD and RC approval.**

Hall A

E08-007: Measurement of the Proton Elastic Form Factor Ratio at Low Q2

- **1 Pass 1.193 GeV, max current 20 uA, beam in Compton**
- **FFB in Position and Energy mode**
  - **Slow target lock on**
- **Watch for shifts in energy which cause detector trips in Hall A**
  - **May be caused by drifting path length or unstable RF**

Hall B

g12

- **5 Pass 5.713 GeV, max current 80 nA**
- **Keep the Tagger viewer on. Set the "Hall B T Dump" input to MaxVid 1 Data on the Video Cross point Switcher whenever it is not in use elsewhere.**
  - **Remember to run the setup script for Hall B Tagger Dump if requested**
- **Current instabilities may be caused by A1, A2 steering, Hall B laser phase or loss of accelerator orbits when Hall C is not running**
- **An energy tail may appear on the Hall B tagger dump screen.**
  - **Adjust the pre-buncher phase or B laser phase to fix this**

Hall C

GEp/GMp via recoil polarization and Two-Photon Exchange

- **5 pass 5.713 GeV; max current 100 uA**
- **FFB on in position mode**
  - **Switch to energy mode when Hall A is down**
- **Watch for shifts in energy caused by drifting path length or unstable RF**
- **RER requested for vacuum leak on 5/18**