

LEDEX meeting minutes – 2006/06/14 (rg)

The revised schedule switches the ed A(q) run before the CSR test. Ed claims he is running late; it is likely that for a few days after the beam testing starts he continues to work in the hall during the days. We may start the experiment running evenings and overnights.

Jackie analyzed cosmic data, finding some FPP problems. Ron is pleased so much of the FPP works initially; some hardware problems are already solved. Jackie is converting all software to C. Mark Jones, Ron and others will continue debugging; trigger is due back Wednesday.

The missing radiator part should be at Rutgers Thursday; RG will get Yannick to help with the needed electronics cabling. Gerfried will drive the completed system down about June 20.

Guy and Doug have worried about EPICS variables. Guy set up run start / end readout, and the slow (30s) and fast (5s) readout. Emily will take this over, per Adam's request.

Doug asks about EPICS variables for silver calorimeter. Arne has already generated names; a large accelerator calo installation meeting was held Wednesday afternoon.

Guy is worried about who will set up coda for us. He will talk with Bob Michaels, who usually does this.

Sharon and Adam continue work on the run plan. They expect a detailed 362 MeV draft next week. Adam will speak to Eugene about Moller precisions. RG bias is that we only need one Moller, unless we have beam spot move, or other things that likely affect the beam polarization. It is quite possible nothing like this will happen all summer, but the run coordinator should be aware of changes in the polarization which may ensue from Hall C requests which may require additional moller runs. The plan will alternate ep points with 2 gamma d angles. The plan will have at least one ep point below the gamma d momentum range. Time for gamma p spin transport checks looks hard to fit in.

Yannick reports that the calorimeter is reaching good plateaus for getting temperatures. Coefficients from air are off those from vacuum, by ~ 0.2 K. The high precision probe is only available in air. The group is working on resolving problems.

Emily reports the BCM electronics upgrade is installed, works, and everything is great. There is 3% distortion at 100 microamps. There is a 10x amplifier before the down conversion to 10 kHz. This includes everything from box through counting house. We need to know how good the integrated current = charge is over a reasonable time scale, ~ 10 minutes.

Emily needs a shift request boss to fill in for the time she is away.

Guy will help give the Hall A collaboration meeting presentation.

Guy will convert palm to read in and analyze root files. We discuss Wigner rotations and in which reactions these are needed / where to include them in the analysis. Sometimes (e.g., ep elastics) observables are defined in the lab system, so Wigner rotations are not needed. In deuteron photo-disintegration, the observables are reported in the c.m., so one must mix the x and z spin transfer components measured in the lab to determine the c.m. observables.