

LEDEX meeting minutes – 2006/06/02 (rg)

Emily posted meeting notes from last week, proposal defenses, and calorimeter pictures to the website. Yannick has looked at, modified, and updated the shift procedures web page. An expert is needed to look at it further. RG “volunteers”.

Jonathan, working with Arne, has done many tungsten slug calibrations. The chiller is being installed into the system today, more runs next week. Arne indicates that we have at least a 0.5% device at present. The goal is a 0.2% heat capacity calibration. Neither Kees nor Ed knows the calorimeter installation schedule. RG has sent an email to Arne and Mike about this, so we can recheck the schedule and transmit the information to Ed.

The Thursday Hall A staff meeting discussed using the new and old scattering chambers, and the readiness of the radiator and the FPP. The He form factor experiment wants a large backward angle that requires the old scattering chamber, which requires a scattering chamber change at some point – we expect the new one to be installed this summer. We want the new one to use with the new radiator. Sirish indicated that the FPP and radiator would be ready in time. Also, Kees did not know about Doug's special collimator.

Emily has built the BCM amplifier boxes, and testing shows a ~50 dB range. Next week the BCMs will be tested in the Hall. The tests should be done by end of next week, and we should soon afterward know the range of the BCM system.

Jackie has analyzed the FPP cosmic data from a few weeks ago. Her code appears to work on the old N-Delta data; it looks like our cosmic runs last week just had noise. The space and PDD spectra on old n->Delta looked more or less reasonable but not identical. We have to take more FPP cosmic data and go looking for where in the hardware or the readout electronics / software we get the noise. RG doubts it is the hardware since all of that turned on normally, but all the readout was disconnected and re-assembled, and there could be a problem anywhere in that hardware chain, or in the (timing of the?) readout of the TDCs.

Doug reports that the Hall A cleanup from Gen is progressing well. The neutron detector disassembly has started. There is still a lot of stuff in the Hall to remove; Doug is grabbing people regularly. A survey of the collimators / collimator boxes has started.

Sharon has nearly completed a gamma d run plan. A table will be mailed out soon.

RG report that the new radiator remains due on site about June 15, while Ed regularly indicates he is falling further behind and we might need to start late. Kees has the COOs and ESADs, but has given no feedback yet. Work on the ed run plan has started, with Jonathan. Arun looked over the old ARC energy measurements, and concluded the system as is needs a minimum energy of about 500 MeV to work; below that the existing NMRs do no work. Doug suggests that since the arc between the north and south linacs is set as it would be for ~700 MeV beam, we might be able to get a good beam energy measurement from the trajectory around that arc. He will talk with Mike Tiefenback (spelling?). This investigation is intended to provide a check on our kinematic reconstructions of the beam energy.

Mike Paolone of S. Carolina, Dave Tedeschi's student, attends the meeting. He will start work with Bob Michaels on the trigger next week. Dave also attends the meeting, by phone, but we lost the connection at some point.