The Helium Minimum

July 21, 2000

Information Repository

Web page with pointers to reports on studbolt
done, see `http://studbolt.physast.uga.edu/templon/e97111`

1. summary of beamtime request **still to do**
2. proposal **done**
3. pointers to xxx papers **done**

PID

pi-e Report on the pi to e ratio in all kinematics — **done** JHM

1. Cerenkov Pump Bogdan for info. – **done**
2. Make commissioning plan for Cerenkov — JT, EB
3. Analysis kumacs —JT

Singles

electron this is a side effect of the pi to e studies —JHM **done**

hadron calculate rates—JHM **done**

Kinematics

redo all kinematics for the web values of the energy, send results out– -JT **done**

1. rates in "final" kinematics Aeexb —JT **done**
2. rates in "final" kinematics MCEEP —JHM **done**
3. **caveat:** for some kinematics, AEEXB and MCEEP disagree by large factors
4. Both must compute pm resolution and accuracy (JHM) **still to do**

Target

Heat exchanger tracking — JHM will sit on Seely

1. Commissioning Plan — JHM
2. Boiling from scalers —JHM
3. Hydrogen - Helium changeover (ties back to main run plan); how many hours??
4. Survey info—JHM

Optics

Detector switch over optics run-plan

1. run-plan —**Nilanga** working on one for both commissioning time as well as facility time
2. survey of detector stacks — JT still needs to contact **Ed Folts**. There is also some cryptic remark about 1 cm in my notes from last meeting; anybody know what it means?
3. optics databases—what energies have been measured, what do we need—JT **done.** Nilanga says we have all we need except we need
   (a) detector offsets
   (b) pointing
   (c) verification of momentum calibration (important since packages are swapped, should not be needed but HEY we don't subscribe to the "you've got to believe" school)
   (d) see runplan for more info
4. pointing—how is it determined from carbon foil measurements and the pointing gizmos ? What measurements do we need—JHM?
5. Acceptance—to collimate or not to collimate? Still waiting on contrary evidence from Epstein/Saha et al. In any case we will collimate electron arm.

Trigger

1. Timing calibrations — How is it done ? JHM
2. Computer Dead-time—-How is it done ? How are pre-scales handled ? Do we like it? JHM, ROM, MJ?

3. Electronics Dead-time—-How is it done ? JHM, ROM, MJ?
4. reaction losses in scintillators (lose S2 due to (p, n) in S1) – Meekins? Is he really still going to do this?

Tracking

1. Chamber efficiencies . How do we know them—JT
2. Large multiplicity events. How are they handled. How many are there ? Are they getting worse ? Rate dependence ? —JT
3. Tracking efficiencies—How do we know it ? JT

Absolute Normalization JHM / DH / ME

1. charge normalization
2. target densities (pressure/temp)
3. target acceptance (ties back into optics/tracking)
4. absolute beam energy (ties back into *ep* measurements and target switch over issues)
5. elastic scattering (DH)
6. luminosity monitoring (Xiaodong)

Collaboration

1. Shift schedules (DM???)
2. COO-ESAD-RSAD—JHM

Run Plan – Please Inspect and Comment