

SBS Meeting 13-January-2020

1. Presentation for the Day cancelled
2. Subsystem updates
 - 2.1. GEM test EEL (Kondo)
 - 2.1.1. Put together 1 frame for BB trial
 - 2.1.2. Coordinate with J. Butler to test in BB
 - 2.1.3. Cosmic Testing to continue after frame
 - 2.1.4. Working with J. Matter on decoder
 - 2.2. Moller Polarimeter (Simona)
 - 2.2.1. Reports 'ready'
 - 2.2.2. Hasn't run detailed simulation
 - 2.2.3. 10 um plate ~ 20 minutes; about an hour for systematics (typical)
 - 2.2.4. Detailed studies ~hour more;
 - 2.2.5. Setup time is about a 1 to 2 hours depending.
 - 2.2.6. Each Moller run to take around a shift to perform
 - 2.3. Shower and Pre-Shower detectors and DAQ on BB (Mark)
 - 2.3.1. HV scan (HV vs. gain)
 - 2.3.2. Pre-shower good; shower needs some blocks moved around
 - 2.3.3. No new work on DAQ; next step to get CODA3 on the DAQ and get link in crates'
 - 2.4. BB Detector update (Bogdan)
 - 2.4.1. Shower detector cables removed; layout will be update
 - 2.4.2. Will remove pre-shower detector from trigger
 - 2.4.3. Mu metal plates to be delivered soon; needs to be installed around shower detectors
 - 2.4.4. Shower det. With bad PMTs move to top for easy later access
 - 2.4.5. Hodoscope fixes; holder designed but \$\$ being identified
 - 2.4.6. Electronics layout and cabling being update
 - 2.5. HCAL update (Scott)
 - 2.5.1. New scintillator for better cosmic ray triggering
 - 2.5.2. Fixed a discriminator issue
 - 2.5.3. Working on efficiency plots versus thresholds
 - 2.6. CDET (Peter)
 - 2.6.1. Cross-talk and efficiency analysis of 4th module
 - 2.6.2. Engineering work to be done to mount in one plane
 - 2.6.3. Partial plane testing (NINO cards); cable construction is being checked
 - 2.7. U-V GEM construction (Kondo)
 - 2.7.1. Design done; working on obtaining the materials
 - 2.7.2. Foil from CERN to be checked on
 - 2.7.3. Support structure for U-V GEM chamber being designed
 - 2.8. INFN GEM update (Evaristo)
 - 2.8.1. December testing looks good; HV supply was found to be at fault in Sept. tests
 - 2.8.2. Testing GEM foil that was originally rejected for QA
 - 2.8.3. Flushing with dry Nitrogen longer; test look positive
 - 2.8.4. Continuing development and confident that they can move forward

- 2.9. Software (Eric)
 - 2.9.1. GEM digitization library in good shape
- 2.10. Recoil Polarimetry (Michael)
- 2.11. Additional Physics from GMn (Bogdan)
 - 2.11.1. Measurement (e'p) at two epsilon
 - 2.11.2. With 2 epsilon can reconstruct GMn and GEn
 - 2.11.3. Rosenbluth approach
 - 2.11.4. Possible 2-photon estimated
- 3. Adjourn

Recorded by Will Tireman