

## Minutes – SBS Weekly Meeting for 24 February 2020

1. Brief verbal status reports on subsystems (Contact persons)
  - 1.1. Software (Andrew)
    - 1.1.1. Started GMn simulation runs
    - 1.1.2. Working on incorporating GMn into analyzer software
    - 1.1.3. Standalone code working on EEL cosmic ray data (UVa)
    - 1.1.4. DAQ and optimization may need to be made; tracking residuals are there
    - 1.1.5. Eric: SBS sim decoder is being pushed forward; target is this week for completion
  - 1.2. DAQ (Alex Camsonne)
    - 1.2.1. Using SBS offline to analyzer data
    - 1.2.2. Looking to expand to higher rates
  - 1.3. BB Pre-shower and Shower (Arun / Bogdan) ([Slides](#))
    - 1.3.1. Put all shower blocks in place; connected HV bases
    - 1.3.2. Next check HV map and cable
    - 1.3.3. Check for light leaks; add scintillator trigger; get cosmic ray data
    - 1.3.4. Update on pre-shower block counting; all blocks arrived
    - 1.3.5. Detector group helping but progress is slow
    - 1.3.6. Cabling to be prepared by Hall C support; progress slow due to other priorities
    - 1.3.7. Mu-metal sheet missing between pre-shower and hodoscopes
      - 1.3.7.1. Plates are useless since field is along particle direction
      - 1.3.7.2. This occurs because SBS impacts total field here (before BB only)
      - 1.3.7.3. Need to machine, purchase new mu-metal shields at pre-shower PMTs
    - 1.3.8. Disassembling timing hodoscope this week for repairs
    - 1.3.9. Concerns/more work
      - 1.3.9.1. BB field clamp and sieve slit
      - 1.3.9.2. Lead shield on BB side of beam line
      - 1.3.9.3. HV cables for the shower counters too short
    - 1.3.10. BB Shower to do list
    - 1.3.11. BB Timing hodoscope to do list
    - 1.3.12. BB GRINCH to do list
    - 1.3.13. BB Front GEM to do list
    - 1.3.14. BB Rear GEM to do list
- 1.1. RP-Gen (Brad)
  - 1.1.1. Hodoscopes in progress
  - 1.1.2. Stand parts procurement moving forward
  - 1.1.3. Lead Shield wall modification; drawings in progress
  - 1.1.4. Field related issues in progress
- 1.2. GRINCH (Bradley Yale)
  - 1.2.1. Conduit for ribbon cables done
  - 1.2.2. Once done will resume cosmic tests

- 1.2.3. Work on redirect cosmic ray photons into PMTs
  - 1.3. HCAL (Brain)
    - 1.3.1. Hardware work nearly done on detectors
    - 1.3.2. Scott working on DAQ readout
  - 1.4. GMn rates (Brian)
    - 1.4.1. Background trigger rates (GMn vs GEn-RP)
    - 1.4.2. Andrew going to run the trigger rates
  - 1.5. INFN GEM (Evaristo)
    - 1.5.1. 3<sup>rd</sup> GEM foil test is delayed due to compressor failure
    - 1.5.2. Defining a INFN work plan
    - 1.5.3. Working with Jlab personnel to prepare for work in TED
  - 1.6. UVa GEM (Nilagna / Danning)
    - 1.6.1. Installed 5<sup>th</sup> layer in test stand
    - 1.6.2. Cosmic data issues need to be resolved; priority to get data cleaned up
    - 1.6.3. SSP work (Danning)
      - 1.6.3.1. Zero suppression mode test worked well
      - 1.6.3.2. Pedestal measurement work; needs work
    - 1.6.4. U-V chamber parts on the way
  - 1.7. Installation planning, infrastructure (Jessie)
    - 1.7.1. High level schedule to GMn/SBS leaders
    - 1.7.2. When to be ready with certain parts
    - 1.7.3. LCW upgrades are going forward
    - 1.7.4. Exit beamline shielding doesn't fit; working on fix
  - 1.8. Timing Hodoscope (Rachel)
    - 1.8.1. Working on timing of help from Glasgow
    - 1.8.2. Working on analyzer incorporation
  - 1.9. Upstream beamline and target (Silviu)
    - 1.9.1. No update
2. Adjourn

Recorded by Will Tireman