Minutes SBS Meeting April 18, 2012

Attendees: Bogdan Wojtekhowski, Sergey Abrahamyan, Mahbub Khandaker, John LeRose, Kondo Gnanvo, Adam Sarty, Nilanga Liyanage, Seamus Riordan

1. Kondo Gnanvo gives a talk entitled “Update on GEM R&D at UVa – Part 2”
   a. See link
   b. Reports on activity at UVa over the last few months
      i. Lists material already purchased
         1. Except for x/y strips readout boards ready to start construction
         2. 2 of 3 readout boards are ready.
      ii. HV tests
      iii. Mechanical stretcher
      iv. Gluing
      v. Frame preparation for gluing
      vi. As soon as we have the readout boards we can start construction
   c. New Design for GEM’s
      i. Frames for better gas flow
      ii. Readout board modifications
         1. Panasonic connectors
         2. All on two sides, instead of four
      iii. GEM foils: move protection resistors to an external board (no longer soldered to the foil itself)

2. Mahbub Khandaker gives talk on “Coordinate Detector Status Update”
   a. See link
      i. Discusses basic configuration
         1. Vertical plane of scintillator strips
         2. 4 m x 1 m
      ii. Projected parameters
      iii. Monte Carlo simulations started
         1. Effects of 15 cm plastic absorber
            a. Reduction in electron rate
            b. Increase in photon rate (results need further study)
            c. Reduction in energy deposition
         iv. Plans for testing PMT’s
         v. Cost estimate ~$218k + detector frames and cabling
            1. Adam Sarty says he hopes he can get a grant to cover part of the cost

3. Bogdan Wojtekhowski reports on the present SBS “budget crisis”
   a. Thought we had:
      i. $200k for GEM R&D
      ii. $200k for HCAL
      iii. $50k for A1N preparations
   b. Now all in jeopardy

-JJL