

Minutes: SBS Meeting July 11, 2012

Attendees: John LeRose, Carlos Ayerbe Gayoso, Mahbub Khandaker, Bogdan Wojtsekhowski, Jason Sharpe, Mark Jones, Vina Punjabi, Gordon Cates, Adam Sarty, Gregg Franklin, Kees de Jager, Vincenzo Bellini, Doug Higinbotham, Charles Perdrisat, Yang Wang, Vahe Mamyan, Nilanga Liyanage

- 1) Gregg Franklin makes a report on HCAL
 - a) See [link](#)
 - b) Discusses design (standard type) and dimensions
 - c) JINR has made 9 modules which were shipped to CMU, subsequently some were shipped to JLab
 - i) Gives details of modules (COMPASS design)
 - d) Design criteria given (size, Energy resolution, Time resolution, Angular resolution)
 - e) Design status
 - f) Studies with Eljen Wave Length Shifter (WLS) and scintillators
 - i) Greatly increase the # of pe's
 - g) Light Guide design and manufacture
 - i) Eljen much more costly than JINR
 - ii) Exploring alternate technologies
 - h) Design Initiated
 - i) Shows some pictures
 - i) Agreements, Addendum, etc. bureaucracy is burdensome
 - j) Plan A: JINR does it all (see i))
 - k) Plan B: alternatives
 - i) JINR does scintillator plates
 - ii) CMU does the rest
 - (1) Rough budget estimate given (scintillators very uncertain)
- 2) Mahbub Khandaker gives talk on cost estimate for new Coordinate Detector (alternative to GEM based CD)
 - a) See [link](#)
 - b) Configuration (1728 HERA-B middle blocks)
 - c) Two options 0.5 and 0.3 (x 3 x 134 cm³)
 - i) Gives details for each (# channels, sizes, etc.)
 - ii) 0.3: ~\$342k
 - iii) 0.5: ~\$352k
 - d) Lots of questions:
 - i) Need power supplies for crates and SFI?
 - ii) Labor costs?
 - iii) Time frame?
 - (1) When do we buy what?
 - (2) How much in FY13?
 - iv) Scheme for Canadian contribution?
 - (1) One of three planes built in Canada?
 - (2) Adam buys parts? (Which parts? How many?)
 - (3) What if Adam doesn't get funding?
 - v) How much for UVa manpower for GEM CD?

- vi) Electronics testing, How? Where? By whom? (Nilanga, Vina, and Mahbub will discuss this off-line)
- 3) Bogdan Wojtsekhowski discusses agenda for the next three meetings
 - a) Layouts and resolution of interferences next week (7/18)
 - b) Large Angle Calorimeter: Mark Jones is exploring the possibility of using CLASS-6 Calorimeter. The week after next (7/25)
 - c) GEM status by Nilanga Liyanage in 3 weeks (8/1)

-JLL