Minutes: SBS Meeting October 3, 2012

Attendees: Bogdan Wojtsekhowski, John LeRose, Kees de Jager, Mark Jones, Alexandre Camsonne, Carlos Ayerbe Gayoso, Seamus Riordan, Nilanga Liyanage, Gordon Cates, Brian Quinn

1) Gordon Cates gives Polarized $^3$He target update
   a) See link
      i) News
      ii) Layouts (box fits inside the Transversity coils)
      iii) Field Considerations
         (1) Studies (longitudinal is concerned with the z direction, transverse with the x direction)
         (2) Gradients that matter when not doing polarimetry
            (a) Worry about the gradients
         (3) Gradients that matter when doing AFP
            (a) Mixed results, no show stoppers
         (4) Conclusion:
            (a) 1 m Barrel potentially problematic
            (b) Still studying implications of all the gradients
            (c) Transversity coils appear to be sufficient to do the job
      iv) Questions:
         (1) Transversity coil diameter? About 2 m
         (2) Should we study the fields with the BigBite magnet in proximity? Yes.

2) Bogdan Wojtsekhowski talks about the Upgraded Detector system of the BigBite spectrometer
   a) See link
      i) Shows the A1n layout
      ii) History of BigBite detectors
         (1) Limitations of the MWPC setup
      iii) Present plan:
         (1) INFN front chambers (GEMs)
         (2) Gas Cherenkov
         (3) More GEMs
         (4) Lead Glass Calorimeter
         (5) Highly segmented timing hodoscope
      iv) Reviews details of old design (performance parameters)
      v) Reviews details of new design
      vi) Slide 15 shows dimensions
      vii) Gives Gas Cherenkov details
      viii) Summary
         (1) Lists collaborators
         (2) Timeline- could be ready by 2015 (not certain, driven by collaborators schedules and effort level)

-JJL