

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  $^3\text{He}$  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)

-JLL