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Minutes: SBS Meeting May 25, 2016

Agenda: Douglas Higinbotham - BigBite Spectrometer Status  
Dasuni Adikaram - ECal DAQ update

Attendees: Brian Quinn, John Annand, Douglas Higinbotham, Gregg Franklin, Mark Jones, Mitra Shabestari, Dasuni Adikaram, Andrew Puckett, Gordon Cates, Seamus Riordan, Ralph Marinaro, Rachael Montgomery, Juan Carlos Cornejo, Abbie Salyzyn, Parker Reid, Peter Monaghan, Adam Sarty, Simona Malace, Alexanre Camsonne, Bogdan Wojtsekhowski.

Dasuni - ECal DAQ status update

- Overview of SBS FASTBUS Inventory
  - 9 out of 12 FASTBUS crates have been tested
  - 2 of 9 CDet crates tested
- Current status of ECal DAQ
- FB crates tests in progress
- Summarizing Event Switching efforts
  - Event switching documented and preliminary tests done
  - Working on Linux installation for CODA
- Explaining SBS trigger supervisor and test setup  
(Discussion of results on dead-time with event switching)
- Review of candidate dead-time models
- Discussing the outcome of Non-buffered and buffered modes
  - Non-buffered event switching shows ~5% improvement at few kHz trigger rate)
  - Buffered mode with event switching reduces dead-time by ~10%)
- Presenting results from buffered model event switching  
(Results are in agreement with models)

Doug - BigBite Spectrometer Status

- Explaining BigBite infrastructure; Overview of existing equipment for BigBite (power supply, sieve)
- Review of the "classic" and "new" equipment
  - Cerenkov gas C4F10 is an issue and expensive (C4F80 totally out of production)
  - Plan is to stockpile, have British vendor
  - Ordered fraction of what is needed
- Summary of available electronics & cables in the TestLab
- Reviewing the next configuration and existing issues  
pace is an issue, BigBite was going to the hall for Marathon and not clear where it will go right now. Manpower is also an issue (Tritium students not focused but there is a new Hall A postdoc)
- Readiness review:
  - Needs new OSPs - Discussion of previous magnet safety issues
  - Also needs other documents (at least drafts)