

Minutes: SBS Meeting November 7, 2012

Attendees: Bogdan Wojtsekhowski, John LeRose, Mark Jones, Alexandre Camsonne, Carlos Ayerbe Gayoso, Seamus Riordan, Charles Perdrisat, John Annand, Bob Michaels, Mitra Hashemi Shabestari, Evaristo Cisbani, Kondo Gnanvo, Nilanga Liyanage

- 1) Kondo Gnanvo reports on GEM electronics studies at UVa
 - a) See [link \(pdf\)](#) or [link \(pptx\)](#) for his slides
 - i) 2 different systems used
 - (1) CERN RD51 (SRS)
 - (2) INFN developed multi-purpose digitizer (MPD)
 - ii) Lists hardware differences between each
 - iii) SRS linear at low end but starts to saturate, while MPD is linear over the full measured range
 - (1) MPD is optimized for higher injected charge
 - (2) Get no signal in MPD at low end, not sure why
 - iv) Hot channels seem to come from the APV card (not chamber or connectors). Will repeat with new cards.
 - b) Evaristo Cisbani comments
 - i) Obtained the same data in Italy
 - ii) He has questions re gain estimation. He gets different numbers.
 - iii) Working on understanding the impact of MPD vs. SRS. He still has tests to do.
 - c) Nilanga Liyanage comments
 - i) Paolo (INFN) is studying the differences between MPD and SRS
 - ii) Studies continue at UVa. Expect more results by December 5.
 - iii) Evaristo says he'll need a little more time
 - iv) Hope to resolve this in December.

-JLL