Feb 27

Wednesday, February 27, 2013
4:02 PM

Participants: Seppo, Geoff, Tim, Mark, Chris C. Matthew, Chris Hays, Nadia, Michael

* Geoff - funding
  + David Dean letter sched n³lc 18 mo June 2014
    - contingent on readiness review & accel or other exps.
  + annual visit to DOE, well-received
    - need 2-3 page proposal
    - I'll run it by Vince; emphasis cost/sched/scope.
      - what will it be used for? HEAVY LEVERAGED!

* Michael - setting up simulation using Garfield.
  10 MΩ - default value.
  rough estimate: ~ 1μA first few planes
  ~ .05μA in the last plane
  - see my calculations in paper mailed out recently:
    2.7μA front — 2.3nA back

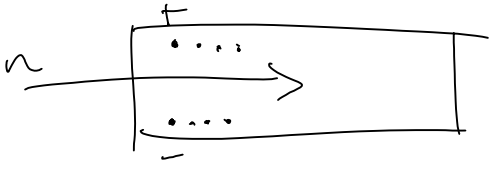
* Seppo - Status of preamps.
  - met with engineer, introduced the problem
  - preamps - DAQ
  - here: 32 ch./group.
  - mock SE tests. - Chris Hays.

* Michael - ground strip on each plane
  - frames positioned w/ 3pt mount.
  - connical sections metalized.
  - original idea: get rid of leakage currents.
    - then all grounded to chamber or separate ground wire
  - status: metalized surfaces on HV planes.
    - also on signal planes?
  - no disadvantage ⇒ go forward with coating.
  - Geoff: need ceramic balls to be round
    - if cones coated, we depend on uniformity of coating.

- Mark: coating not in cones.

* Libertad –
  - will design Fraue – CAD model of expt.
  - Mark send chamber model.
  - Seppo: Rick Allen can send SNS model of NPDF?
    - as-built model of NPDF?
    - do have model of the cave.
    - we'll have to check our drawings (don't blindly trust SNS drawings).
    - Seppo has measurements of where everything is.
  - will design +2 in adjustable stand
    - 4 D.O.F for solenoid (rough alignment)
    - fine adjustments on chamber mount & B-field trim coils.

* Michael: design of readout planes, interface between planes & feedthroughs. need to finalize all this. soon ⇒ next week
  + will use 4 ports for signals
  + Seppo: must model impedance of transmission line
  + 17×9 and 16×8 signal → outer wires.
    153 ch. 4×32 ch.
  + first layer has no asymmetry so it doesn't matter
  + possibility of running in transverse asymmetry mode?



$\sigma_d \approx 6$. longitudinal!
* want long attenuation length to see p track at top, bottom ends of chamber.