Feb. 19
Wednesday, February 19, 2014
2:01 PM

Chris, Jack, Kabir, Mark, Paul, me, Carlos, Seppo, David., Irakli,

- Carlos - data analysis
  - coming in the Summer / fall to ORNL.

- Seppo - summary.

- PRAC - each person prepares slides
  - Michael present them.
  - theme: convincing that we are going well.
  - threshold: test wire chamber

  - wire chamber, preamps OK (not on critical path).
  - David - tone: go through topics
    identify talking-points

- Integration
  - Jack has a designer - free., full-time
  - must design alignment pieces.
  - will have model of beamline / expt for PRAC.
  - alignment piees - Jack talk with Josh.
  - Josh should ideas → designers implement.

- Magnetic coil
  - HAVE to converge on design of field placement, # windings, fieldmap.

- RFSF
  - 20% off in calculation of inductance
  - audio amp hasn't arrived. - send shipping info
  - alignment marks

- MUST check safety before capacitor - Seppo.
- measurements for PRAC.

- Wire Chamber
  - parts in for assembly stand
  - epoxy to fix leak
  - readout boards - Advance Circuits : 3-5 days.
    → Advanced Assembly (waiting on quotes)
  - Michael has to generate PO's ahead of time.
  - For PRAC:
    - Mar 7: PCB arrives.
    - Frame stack built on table.
    - test HV breakdown w/ ^{4}He.
    - April: In-beam testing.
      parameters: a) largest signal voltage. → new R.
      b) plateau voltage. I indep of V.

- Preamps
  - measuring false asymmetries: $-1.5 \pm 1.1 \times 10^{-9}$
    from 1/2 hr of data → 1×10^{-10} goal.
  - working on getting 56 kHz sample clock
    Irakli & Kabir unsuccessful getting output clock.
  - construction
    - one board w/ good noise performance
      w/ 40 pF capacitance still thermal noise
      -old measurement was not valid (wrong ground).
    - 2 weeks to make boards
      - just remanufacture w/

- DAQ

- Collimation Li_3PO_3 =, lithium phosphate - no abs. σ!

- Jack: SNS has ^6Li, can put in ceramics and machine.
  - make 4-jaw collimator w/ ^6Li
  - let's plan meeting at/after PRAC for alignment.

- PRAC:
  - need progress - slides show this.
  - need detailed schedule — Seppo
  - assembly / testing / commissioning plan.
    - need to vet schedule.
    - David:
      a) scan beam 2 places, w/wo 4 jaw collimator
      b) check WC performance 5, 10 cm opening.
      c) false asym
      d) tune spin flipper / allignment
      e) rudimentary field mcp.
  - geometry factors, collection efficiency, cross-talk.
    Michael: will have simulation by summer

  - tone: existance hardware.
    detailed schedule
    critical decision points
    - I'll send slides to Michael.