Sept. 25

Chris H., Chris C., Seppo, Mark, Kabir, Josh Hamblen, Michael G., Libertad.

1. CAD integration
   - iterating with Mark
   - geting familiar w/ Inventor,
   - have designs from Mark + TODO's.
   - have beamline model.
   - knows how to create parts.

   * Jack Thomison will be project engineer.

2. 2.2 beam intensity.
   - counting ?
   - Scanning arm — Kabir talk with Brad run on hyper.
      - try porting software to another Linux box
      - need to modify rotation stage to shutter.
   - Eric Iverson — image the beam in 2 places.

3. Magnetic Fields
   - not much changed on model.
   - designing how to construct spools
   - 19 or 20 coils w/ 100 turns ; designing winders
   - ~1A , 18 gauge → 10 w/coil.
   - square coils ?
   - work with Josh → send details of extr. Al to Josh.

4. RFSR Chris Hayes
   - engineering drawings for inner cyl.
   - waiting for Geoff → please send to me.
      - PVC rad. 2.5 12.5" diam.
   - TODO: submit technical note to wiki.
   - 3-D: pro parts → quick parts

– need to design parts now –
– want to send a prototype
   • different radii
– will submit model for review.
– Cu wire: can ship to Knoxville
~ Inner cylinder: Al wire, Arcor electronics spec 1100 alloy.
   – I'll check w/ Mike on type of wire.

5. Target
   – tomorrow last part done
   – will come late Oct after DNP to solder
   – need optical table then.
   – alignment – frame stack
      • metrology people at SNS
         – transfer frames → outside.
   – ALIGNMENT meeting at DNP
   – Mike needs shipping address.

6. Preamps
   – no information
   – Seppo will ask David.

7. DAQ – Kabir
   – learning from Esti, learned how to connect
   – writing another script to avoid over-writing files
   – problem of IP numbers changing.
   – making sure waveforms preserved.
   – will meet with Esti
   – DAQ controller & online analysis.
   – Michael Gericke – grad student work on analysis
      • double major physics & computer
      • VISA? citizen of Mexico.
   – Ivan – will get $10k for RAID
   – Seppo – subcontract for DAQ → must wait till beg. Oct.

8. Stand.
   – meet at Jlab w/ alignment

9. Shielding Calculations
   – radiological — Nadu or Geoff's student/post doc
   – detector backgrounds ?
   – MC simulations: Mike G. Chris C.
       – student ?
       – "geometry factors", statistical sensitivity, backgrounds,...