

Minutes from the n-3He meeting on June 18-2014

seppo

Magnetic field:

- Thru email; coils almost wound and they are preparing shipment
- Scanners are on the way – should be already here

Spin rotator:

- final 15 nF capacitor arrived
- Chris will mount and test the capacitor and also make RF cable connection
- Supports in shop should be done by end of week

Detector chamber:

- we prepare to test the chamber with acrylic window to see location of the voltage breakdowns. The acrylic window is needed to get pure He atmosphere to chamber to lower the breakdown voltage. Acrylic flange needs to be fabricated
- for loading of pure 3He gas to chamber we need a gas handling manifold which is under construction
- the drawings for two chamber support rings and done as well as the whole chamber support system. Jack looks for the fabrication possibilities separating two rings from the rest of the support, Chris H will ask from UT shop
- question was asked when we really really need the detector support - 3 weeks from now

Preamps:

- All the four final preamp boards are here
- in the preamp power supply testing one of the final preamp boards was grilled – a capacitor burned – the fixed board is back.
- The power supplies need to be thoroughly tested before using with the preamps, testing going on by Toshihiko Honda
- Toshihiko is also mounting the boards to their Al enclosures
- Toshihiko performed cooling test and it seems that we need total of 6SCFM N2 flow . Jack is looking for if this continuous flow rate is allowed from the N2 system.
- Cooling system also requires routing of N2 line into cave – Jack – and a small manifold with shut off valve and regulator and valve and flow meter per preamplifier - a student labor will be used for this

DAQ – discussed in earlier meeting

Slow control

- NPDGamma tgt computer will be used what about the rack

Radiological issues:

- to meet rad levels outside cave especially in the gate we need to have a borated poly wall with a door in the labyrinth to cave. This approach was discussed with Gregory. Jack is looking to design, time and costs

Installation in 8713

- We need to align manpower
- Kanyan channels and components should arrive this week

Laser mount:

- Ordered arriving this week
- Chris H. will check the power level of laser needs to be less than 5mW for safety