

# ArgoNeuT Status

Mitch Soderberg

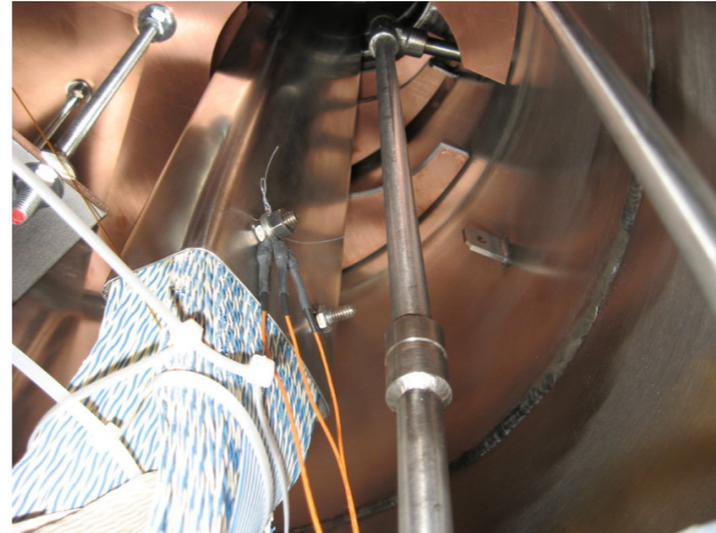
8/26/2008

# Update

- Commissioning ongoing...liquid recirculating in the system / purity slowly improving (Ornella's talk).
- Muon trigger now in place, regularly collecting nice muon tracks (Flavio's talk).
- Need to start thinking about what will happen in coming weeks as we switch focus to getting ready for underground running.

# Fix List

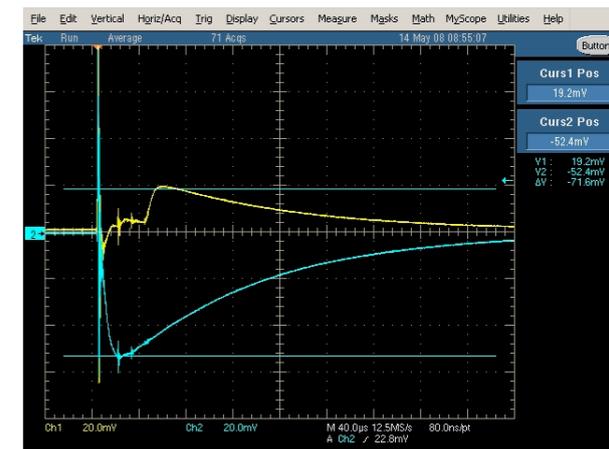
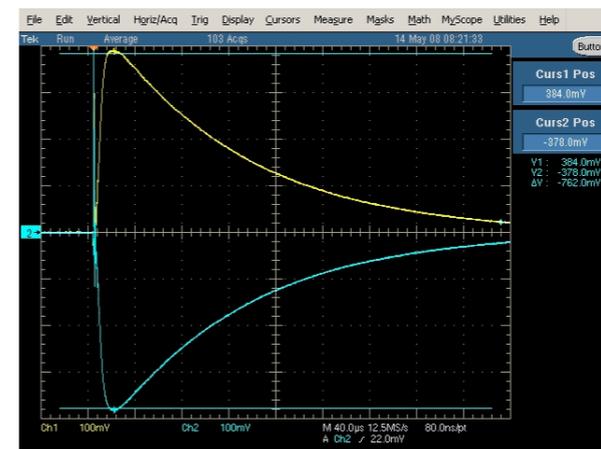
- We know several cables were damaged during installation in cryostat.



- HV drawing too much current...
- Purity Monitor signals MIA. (Fiber problem?)
- Plumbing issues:



- Remove isolation valve MV-03-Ar
- Move Pressure Gauge/Transmitter
- Reroute fill line inside cryostat?



# Buy List

- Several items need to be purchased before running underground....

Item	Purpose	Cost
Manual Vent Valve	More control during fill.	\$500-\$1300
Strobes/Horns	ODH Alarms for underground	\$394.52
Vacuum Gauges	Add vacuum readings to slow-controls	?
New Fibers?	Replace Internal Fibers	?
New Cables/Connectors	Replace Damaged Cables	?



# Plan?

- We have been running in a stable manner for ~3 weeks.
- Need to decide when to end this initial run (empty the tank) and begin moving/fixing things.
- One scenario (with wild guesses at time involved):
  1. Final electronics arrive this week...wait for them to be installed and then take data with full TPC.
  2. Empty tank as soon as the above task is complete.
  3. Open tank (next week) and remove TPC/purity monitor (1-2 days). Begin moving all possible unistrut/support items over to MINOS.
  4. Fix cables on TPC/possibly replace fibers on purity monitor/study HV issue (1 week effort+1 week debugging).
  5. Reseal tank (leak checking as we go), then repump and test with Ar gas (1 week).
  6. Move tank underground (1 day).
  7. Re-assemble underground (?2 weeks?).

# Software

- We are intending to form a separate / permanent software working group for ArgoNeuT
- First meeting will be next Wed. (Sept. 3)...room / time to be determined.
- Brian R. and I will be putting together some information before this meeting (e.g. - Webpage with instructions on obtaining / running all software).
- Two issues that need to be addressed (at some point):
  - If / How to merge various existing software efforts (ICARUS / Yale / Bruce)?
  - How do we collaborate with MicroBooNE? (i.e. - There are members of MicroBooNE, who are not on ArgoNeuT, who have expressed interest in working on developing software)