



# MINOS+ Status Report



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All Experimenters' Meetings

September 30, 2013



# Near Detector Hardware



- Bad channel
  - Replaced a CAPID error minder 7-14-2-10 last Tuesday.
- RPS warning
  - Rack - V11 has fan pack error LED red.
  - Need at least 1 hour to replace this fan pack.
  - Schedule to replace it during next downtime (possibly Tue - Thurs next week as of I heard).
- Low rate minders (0-18-6, 0-20-1)
  - Only a small fraction of data affected
  - Possible Alner box/PMT issue.
  - Two spare Alner boxes with PMT found for each type.
  - SN of these PMTs are found to properly set the HV values.
  - Schedule to replace at least one of them in ND next week during downtime.



# Near Detector DAQ



- Switched back to new DAQ last Tuesday
  - Beam-on DAQ validation
  - DAQ Validation was done on cosmic data
  - Data quality group made preliminary comparison to confirm the data taken with the new DAQ is consistent with old DAQ
  - Send old DAQ hardware to FD as spares once fully certified
- DAQ crashed Wed., Thur. Fri. night
  - The MINOS DAQ error notification system is working!
  - Minerva shifter was very helpful.
  - Crashed during the FiberNoiseSpecial run at the beginning of a new RS24Hour sequence.
  - While still investigating, We ask shifters to restart a new run during day shift time to avoid losing good beam data, and to solve these problems onsite from MINOS shifter or experts.



# Near Detector DAQ



- Email alarms for MINOS DAQ
  - Split the alarm email into two lists: ND, FD
- ND switch problem
  - r-minos-nd-1 switch lost management access
  - All its connections are OK, continues to forward and route packets
  - Network experts were unable to recover management access
  - Need to schedule to reboot it during next downtime.
- AD Data Acquisition server overload last Thurs.
  - Lost beam data.
  - They will balance the load better.
  - Eventually migrate to a newer version.



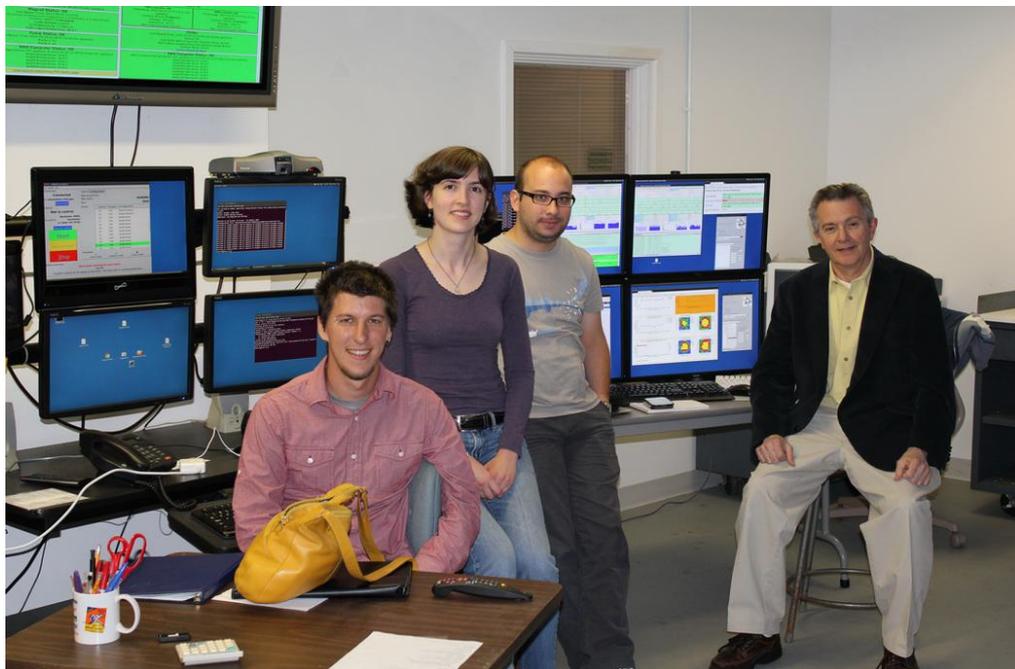
# Far Detector



- Network interruption
  - Last Tuesday morning starting 00:11
  - Causing delays in archiving FD data
  - Archiving resumed at 03:52
- Regular maintenance
  - Replace a few florescent lights on level 2, causing ETC errors crate 8,10,12
  - Change the HV card in the LeCroy HV in MF7
- FD DAQ crashed last Friday night
  - ROP 5 was not pingable.
  - A few remote resets on crate 5 resumed the FD run intermittently.
  - Thanks to the FD mine crew, ROP5 was replaced Saturday.
  - DAQ has running smoothly since then.



# MINOS+ ROC Certification



- Tufts ROC certified
  - Three-day shadow shift last week to obtain qualification.
  - Tony Mann (Tufts Professor), Joao Coelho (Tufts Postdoc), Ruth Toner (Harvard Postdoc)
  - Excellent shadow shift job on watching the experiment to take good data, and reporting problems.
  - Boston-based MINOS+ institutions, Tufts and Harvard, are be able to take official MINOS+ shift remotely.
- Certified institutions
  - Goia, Warsaw, Tufts
- To be certified
  - BNL, UT-Austin, Manchester, UM Duluth.