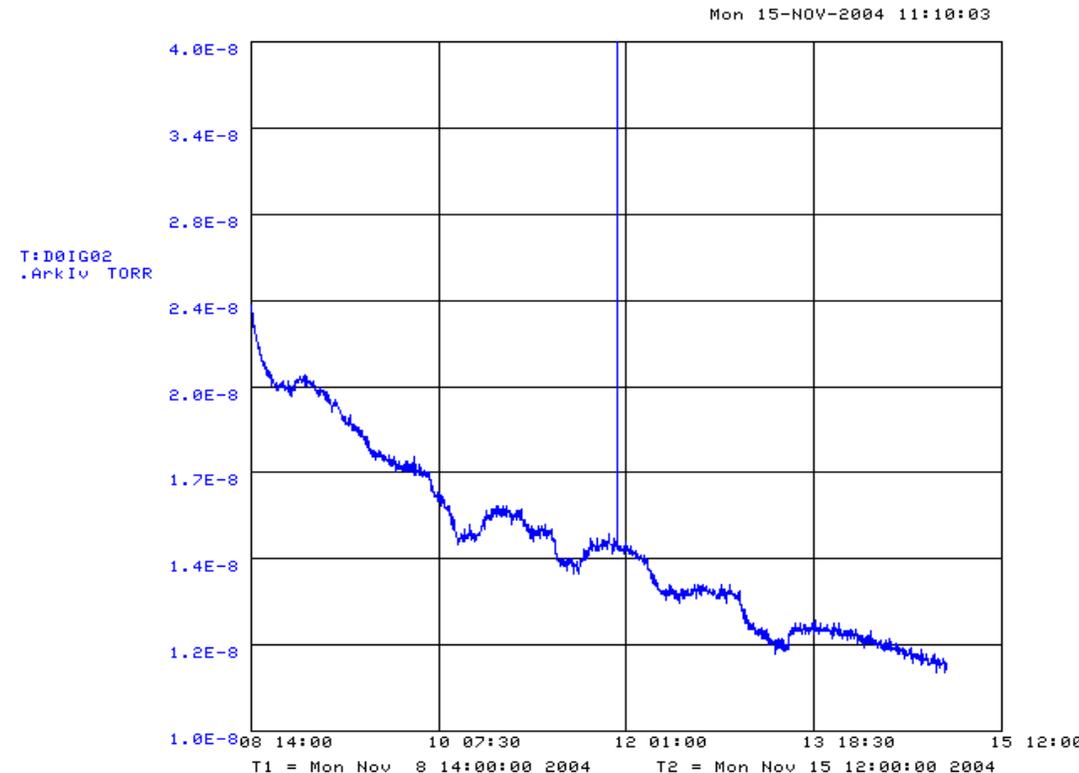




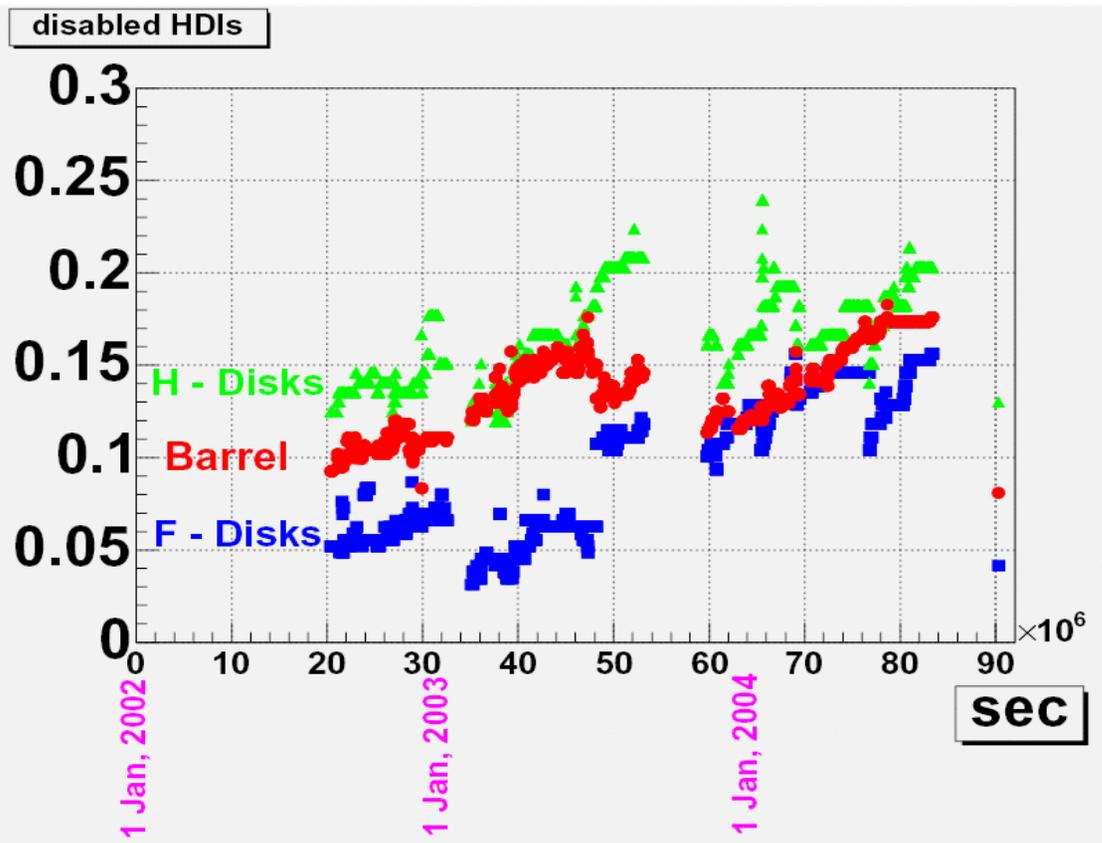
- Improve isolation of calorimeter ground to reduce sensitivity to outside noise sources – **done**
- Attempt recovery of unresponsive VLPC channels – **done**
- Verify aperture for Silicon L0 detector installation – **done**
- DAQ / Online upgrade (migrate Alpha cluster to Linux) – **ongoing**
- Study disabled HDI's – **done**
- Perform “routine” maintenance
 - ◆ CAL BLS power supply upgrades, Preamplifier power supply tests – **ongoing**
 - ◆ Individual channel recoveries (A layer MDT etc.) – **done**
 - ◆ Solenoid warmup for He leak repairs – **done**
- Controls: software upgrades – **ongoing**
- Infrastructure modifications for L1CalTrack, L1CTT, L1Cal – **ongoing**
- ...

- Beam pipe vacuum looks good. Pressure is $\sim 1\text{E-}8$ Torr with ion pumps. It is good enough for beam now but should/will continue to improve especially when SNEG is activated.
- Solenoid cool down is progressing well, at LN2 temperature now. Final liquid helium cooling phase will happen early this week.
- Closed both End Calorimeters on Wed., Nov. 10th. Survey of closed positions took place Thu-Fri
 - ◆ No more gap access in this shutdown





- Closed up the cable bridge between MCH & the detector
- Moved shield blocks in front of pit door for search & secure Wednesday night
- Installed Beam Loss Monitors around beam pipe
- HLS installation ongoing
- Modifications of Forward Muon VME PS completed (less vulnerable for beam backgrounds)
- Modifications to A-layer PDT's completed over the weekend
 - ◆ Shortened cables to reduce noise



Major completed tasks:

VRB hardware upgrade (\rightarrow reduce
deadtime)

VRBC firmware upgrade

SEQ upgrades (\rightarrow reduce deadtime,
increase readout flexibility)

HDI debugging and repairs in the gaps

L0 modules/hybrids added

Gain in enabled HDI's due to:

SEQ upgrades

HDI debugging

unknown / firmware improvements



- Closing CF and EF today
 - ◆ No more access to the cathedral areas in this shutdown!
- SNEG drying cycle + activation
- Forward muon repair on Tuesday
 - ◆ Discovered about a week ago a broken wire in North B layer MDT's
- “Noise” studies on Wednesday
 - ◆ Make sure effort to improve detector grounding pays off
- Search and Secure of Collision Hall on Thursday for magnet tests
- Continuing projects: SMT firmware development, maintenance & repairs, online cluster replacement, ...
- Several survey tasks this and next week (4967, 4874, 4883, 4875)