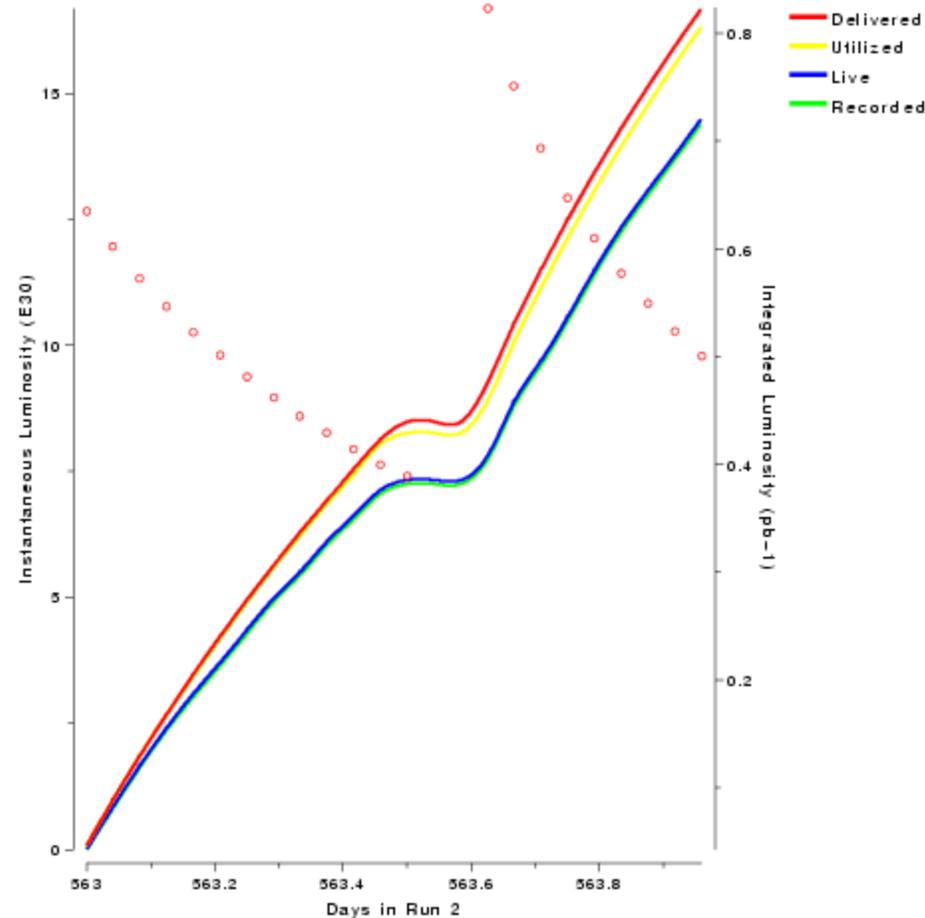
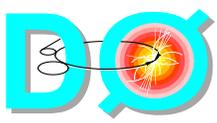


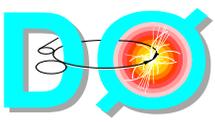
- Delivered luminosity and operating efficiency
 - ◆ Delivered: 4.0pb^{-1}
 - ◆ Recorded: 2.7pb^{-1} (~68%)
- Data taking efficiency
 - ◆ no major hardware/software problems
- New records over last week
 - ◆ global run efficiency 92% (up from 85%)
 - ◆ daily operating efficiency 87% (up from 75%)
 - ◆ weekly operating efficiency 68% (up from 65%)
- Issues caused 1+ hours downtime
 - ▲ Silicon readout and HV trips issues
 - ▲ CFT readout and downloads
 - ▲ Loss of SCL signals for L1 calorimeter crate
 - ▲ Muon PDT failure
- Accelerator halo
 - ◆ reasonable
- Beam position
 - ◆ stable within 0.3mm from the detector center





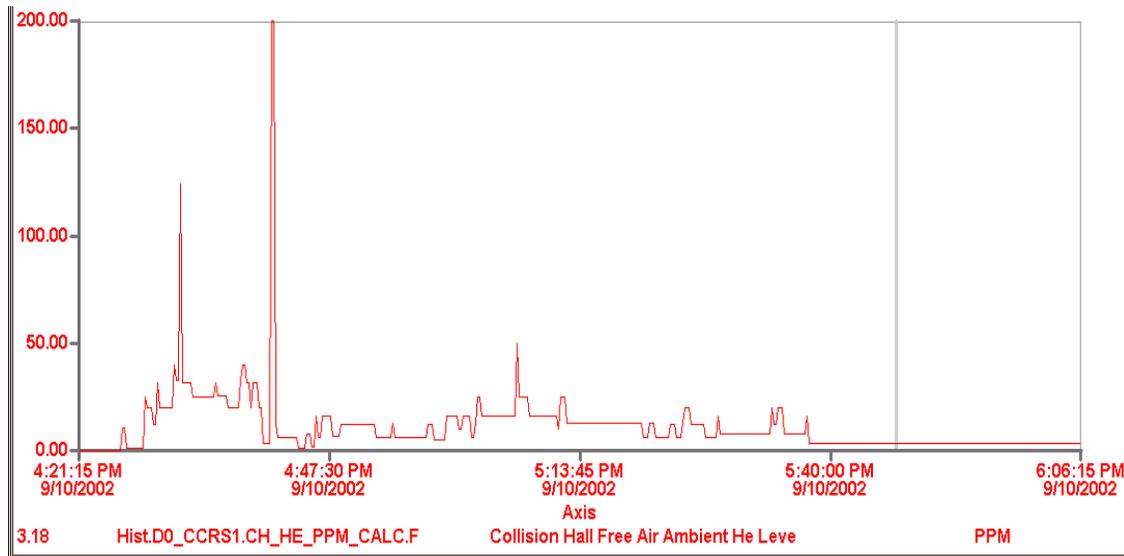
DO Detectors Status

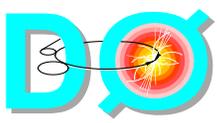
- Luminosity detector
 - ◆ Stable operation
 - ◆ Estimated luminosity measurement error is 10%
- Silicon detector
 - ◆ Power supplies are running well - no problems for 3+ months
 - ◆ Noises stable: ~94% of channels are in operation
- Fiber tracker
 - ◆ Stable operation with all channels in readout
 - ◆ Major issue is hot/empty groups of channels
 - ▲ in progress of studying this issue
- Calorimeter
 - ◆ Stable
 - ◆ Different sources of low energy noises are under investigation
- Muon
 - ◆ Stable operation
 - ◆ Major issue is "data integrity"
 - ▲ on the 10^{-3} - 10^{-4} level there is data format corruption
- Forward proton detector
 - ◆ inserting pots during most stores



He Concentration in the Hall

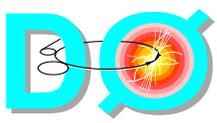
- After multiple improvements He concentration in the collision hall is stable on the 10-20ppm level
- We can even "detect" Tevatron quenches in the vicinity of DØ





Data Taking and Triggering

- Running smoothly physics trigger list 8.2
 - ◆ stable over last 3 weeks
 - ◆ designed for luminosity in the range $(5-25)10^{30}$
 - ◆ keeping high p_T triggers un-prescaled at any luminosity
 - ▲ efficiency of top detection is ~90+%
- Typical trigger rates
 - ◆ L1 trigger 0.3kHz
 - ◆ L2 trigger 0.15kHz
 - ◆ L3 trigger (to tape) ~50 Hz
- Total number of events collected over last week
 - ◆ 7.5 mln
- Reco reconstruction speed is improved in reco version 11.11
 - ◆ processing about 4 mln events per week
 - ◆ new nodes for the D0 farm are at Fermilab and burn in is in progress



Summary

- D0 experiment is progressing well with physics data taking
 - ◆ no major problems with detectors/electronics/triggers/DAQ
 - ◆ all detectors are in readout
 - ◆ trigger list 8.20 is running on-line
- Data taking efficiency is ~68% over a week, ~87% over a "good" day, and ~92% for a "good" run
 - ◆ multiple items designed to improve D0 operating efficiency are starting to pay off
 - ▲ voice instructions to shift crew
 - ▲ automatic crates restart after crash
 - ▲ etc.
 - ◆ record daily downtime is reduced from 25% to 13% - almost factor of 2