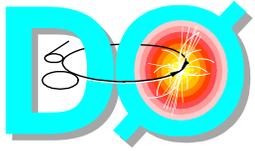


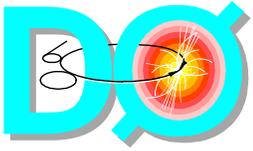
D0 Status: May 13-20

- Week integrated luminosity
 - ◆ 2.3pb⁻¹ delivered
 - ◆ 1.4pb⁻¹ utilized (60%)
- Data collection
 - ◆ global data collections during stores
 - ▲ full detector in readout: 3.1mln events collected
 - ▲ physics trigger menu: v7.2
 - rejecting backgrounds using L2 muon filter
 - updates in QCD and other jet triggers
 - ◆ major sources of downtime last week
 - ▲ Front-end busy: 15%
 - ▲ DAQ system problems: 10%
 - ▲ L2 related problems: 10%
 - loss of L2 inputs
 - actively working on improving monitoring
 - ▲ Others: 5%
 - ◆ special runs collected
 - ▲ calorimeter, muon
- Accesses last week
 - ◆ CFT, muon, calorimeter - Thursday
 - ◆ Muon crate - Friday morning
 - ◆ CFT and SMT firmware upgrades - Friday afternoon



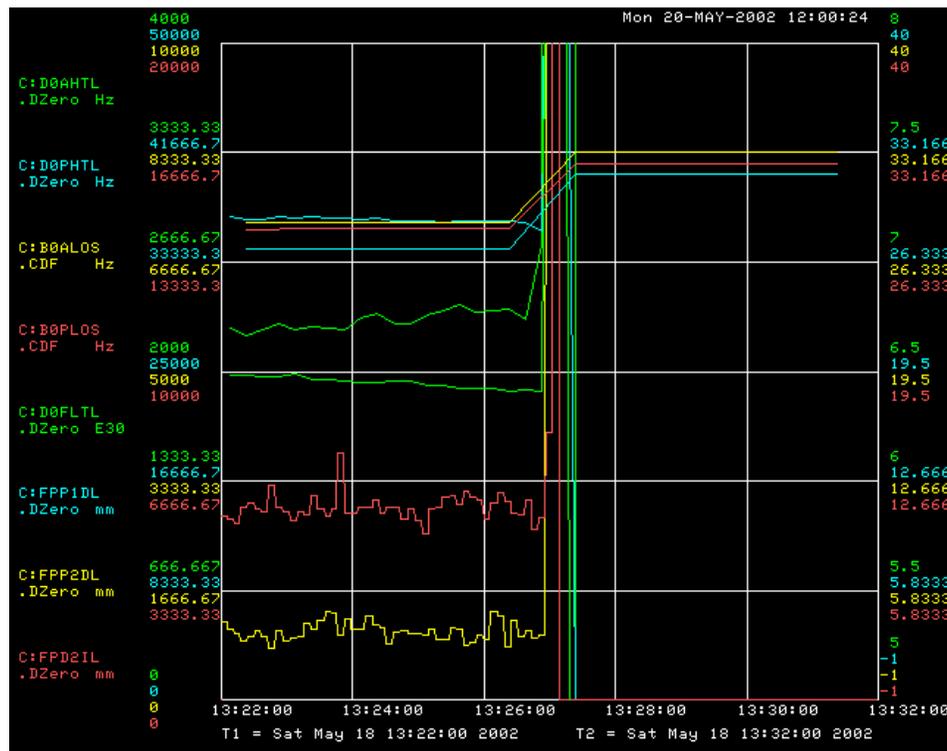
Separator Spark on May 16

- Around 8:08am on May 16th Tevatron beam was aborted due to unusually high losses
 - ◆ Tevatron separator spark
 - ◆ D0 quads quenched, triggering the abort
 - ◆ D0 SMT protection pooled the beam abort as well
- Peak rate seen by the D0 silicon protection BLMs was 90rads/sec , total integrated dose was 110rads
 - ◆ highest dose rate obtained by D0 in single event in Run II
 - ◆ silicon and most other D0 detectors HV tripped
 - ◆ total integrated dose was within D0 silicon detector tolerances
- No known damage to the silicon or other D0 detectors been done
- We should work on preventing such events in the future
 - ◆ separators conditioning
 - ◆ abort on separator trip?
- D0 proton and p-bar halos last week were within acceptable limits
 - ◆ 2-3kHz for pbars and 30-50kHz for protons



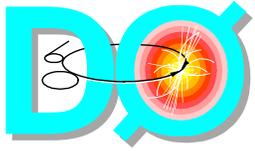
Store Abort on May 18

- At 13:26 on Saturday, May 18
 - ◆ DO FPD shifter was removing pots in preparation for store termination
 - ◆ shifter made a series of mistakes commanding pots to move closer to the beam instead of sending pots to "home" positions
 - ◆ beam was aborted due to high losses
 - ◆ no known damage to the DO and CDF detectors
- Actions taken
 - ◆ procedure for removal of pots is streamlined
 - ◆ "hardwired" limits preventing operator from moving pots too close to the beam are established and person updating these numbers been identified
 - ◆ we postponed pots operations for 2 days
 - ◆ all FPD shifters been briefed about the accident and re-trained
- This was the first and we plan last store abort due to the DO pots operations



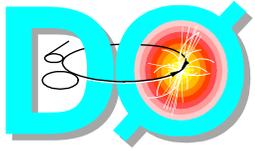
June 5, 2002

Dmitri Denisov



D0 Detector Status

- Luminosity detector
 - ◆ stable operation
- Silicon detector
 - ◆ silicon detector is running well (1 out of 8 LVPS is OFF)
 - ◆ studies of "grassy" noise are progressing
- Fiber tracker
 - ◆ fully instrumented with electronics and in global readout
 - ◆ working on CFT and CPS/FPS commissioning
 - ◆ populating forward preshower detector with AFE boards
- Calorimeter
 - ◆ stable operation
- Muon system
 - ◆ stable operation
 - ◆ installation of modified MFC cards is progressing well
 - ▲ all muon tracking crates have new cards
 - ▲ loss of beam time due to muon readout errors is reduced from ~10% to ~3% as of today
- Trigger
 - ◆ L1 trigger is running stable
 - ◆ L2 trigger is running well
 - ▲ optimization of monitoring tools
 - ▲ training of shifters
 - ◆ L3 trigger
 - ▲ calorimeter algorithms are running well
 - ▲ muon code is running on-line, in mark-and-pass mode for now



This Week DO Run Plan

- Global data collection today and tomorrow
- During accelerator studies
 - ◆ calibrations for different sub-systems
 - ◆ finish installation of muon MFC cards
 - ◆ multi-buffer firmware download into tracking and trigger framework crates (major reason for current front-end busy fraction)
 - ◆ Level 2 system software upgrade
 - ◆ installation of final Run II calorimeter Level 1 trigger electronics
 - ▲ first ± 0.8 in eta
- Continue physics data taking with full detector in readout starting Thursday
 - ◆ global trigger list v7.X
 - ◆ readout rate $\sim 100\text{Hz}$ (or more if multi-buffer fully implemented)
 - ◆ rate to tape $\sim 30\text{Hz}$
- Plan to finish "Summer Conferences" data sample collection by June 3rd
- No access requests as of now
- Schedule for June shutdown
 - ◆ ready to start access on June 3rd
 - ◆ planning to accomplish critical jobs within 12 days