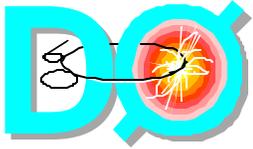


DO Status: 01/14-01/28

- ⌘ Integrated luminosity
 - ⌘ delivered luminosity
 - week of 01/14 0.86pb⁻¹
 - week of 01/21 0.42pb⁻¹
 - luminosity to tape: 40%
 - ⌘ major sources of down time/inefficiency
 - hardware failures (like DAQ machine yesterday): 10-20%
 - DAQ system efficiency and reliability: 30-40%
- ⌘ Data collection
 - ⌘ global data collections most of the time
 - average rate to tape during store is 8Hz
 - ⌘ about 10% of time is devoted to detectors commissioning
 - special beam halo runs for silicon alignment
 - zero field runs for silicon/CFT alignment
 - non-zero suppressed calorimeter runs
- ⌘ By February 1st finishing collection of data sample for Moriond
 - ⌘ reasonable integrated luminosity
 - ⌘ large data samples of
 - jets
 - electrons
 - single and di-muon events



D0 Status

? Luminosity detector

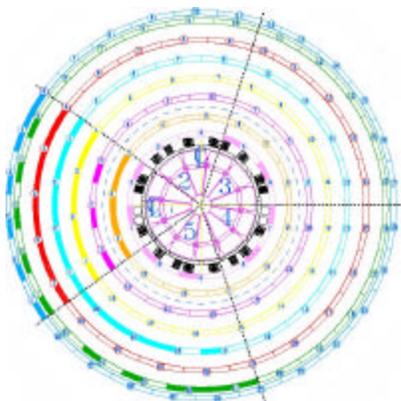
- ⌘ stable running
- ⌘ no changes in luminosity constants for last two months

? Silicon detector

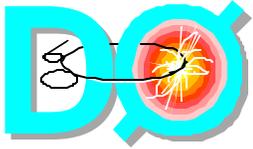
- ⌘ lost 2 power supplies in the “cathedral” area: ~20% of acceptance
- ⌘ require 3-4 shifts shutdown to open the detector and replace LVPS
- ⌘ ready to perform repairs on short notice
- ⌘ would like to fix this problem on a few weeks time scale

? Fiber tracker

- ⌘ ~105 AFEs boards are operating in the hall
 - ⌘ all axial layers
 - ⌘ one fully (all axial and stereo layers) equipped sector
 - ⌘ all axial central preshower layers are equipped
 - ⌘ AFE boards mass testing is on hold
- ⌘ VLPC temperature control issue
 - ⌘ on large number of AFE boards VLPC heaters circuit is not functioning properly
 - ⌘ required stability is 0.1K
 - ⌘ fix is developed and tested on large number of boards
 - ⌘ plan to modify/re-test all installed AFEs over next month
- ⌘ in process of commissioning



Equipped CFT
stereo layers



DO Status

? Calorimeter

- ⌘ running smoothly
- ⌘ have to replace 1-2 LVPS every week, but reasonably fast procedure

? Muon system

- ⌘ all central muon chambers are working
- ⌘ forward muon tracking detector operating currents are well within estimates: no trips
- ⌘ optimization of trigger gates width/timing finished
- ⌘ TOs for direct muons are measured and downloaded into front-ends

? FPD detector

- ⌘ insertion of pots and their commissioning is progressing well

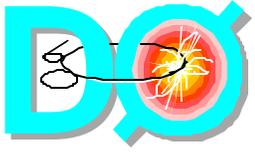
? Trigger

- ⌘ running global trigger list version 3.3
- ⌘ at L1 trigger: calorimeter (jets, electrons) and muon (single and di-muon) triggers
- ⌘ filtering on calorimeter objects at Level 3 (mark and pass)
- ⌘ Level 2 trigger is in global readout and commissioning is progressing

? DAQ

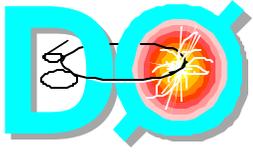
- ⌘ limiting factor in terms of dead time and number of events written to tapes
 - ⌘ check sum errors rate reduced by a factor of ~2
- ⌘ able to run stable at ~8Hz average rate to tape
- ⌘ short and long term plans for the DAQ system improvements are developed

? Currently no access requests



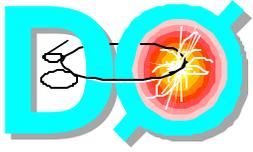
Forward Muon Timing

- ? Since the beginning of Run II muon trigger scintillation counters were used mainly for triggering in "yes"/"no" mode
- ? Based on accumulated data we are able to use these counters good timing properties to reduce combinatoric and cosmic backgrounds
 - ✍ plots for J/Psi muons data sample with and without TO corrections are shown on the next slides



No T0 Corrections

Title:
(Landscape A 4)
Creator:
ROOT Version3.01/06
Preview:
This EPS picture was not saved
with a preview included in it.
Comment:
This EPS picture will print to a
PostScript printer, but not to
other types of printers.



With T0 Corrections

Title:
(Landscape A 4)
Creator:
ROOT Version3.01/06
Preview:
This EPS picture was not saved
with a preview included in it.
Comment:
This EPS picture will print to a
PostScript printer, but not to
other types of printers.