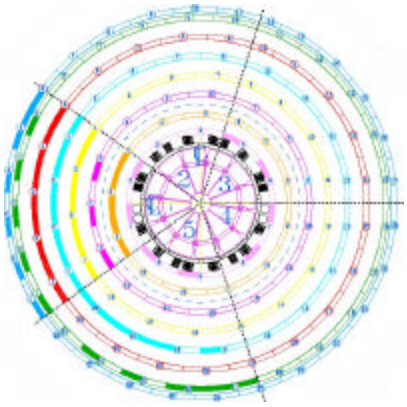
D0 Status: 01/07-01/14

- During last week
  - 5 shifts access to fix silicon LVPS
  - data collection during stores
- Integrated luminosity
  - delivered luminosity 0.5pb-1
  - operating efficiency ~50%
    - DAQ system efficiency and reliability is low
- 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
- Supervised access results
  - detector opening/closing went very smoothly, a lot of experience gained
  - major access goal has been achieved - all failed silicon power supplies fixed
    - 3 power supplies failed due to “loose wires”
    - 1 power supply failure is not yet understood - supply is replaced by spare
    - all fixed silicon LVPS are running stable since repairs
    - back to 93% of silicon coverage!
  - repaired (primary) calorimeter LVPS
  - repaired 3 muon chambers
  - installation of modified AFEs and fiber tracker trigger electronics
  - detector survey after closing and many other modifications/improvements done
  - can clearly see considerable (factor of 1.5-2) improvement in backgrounds situation after extra shielding wall was installed in the tunnel on the proton side

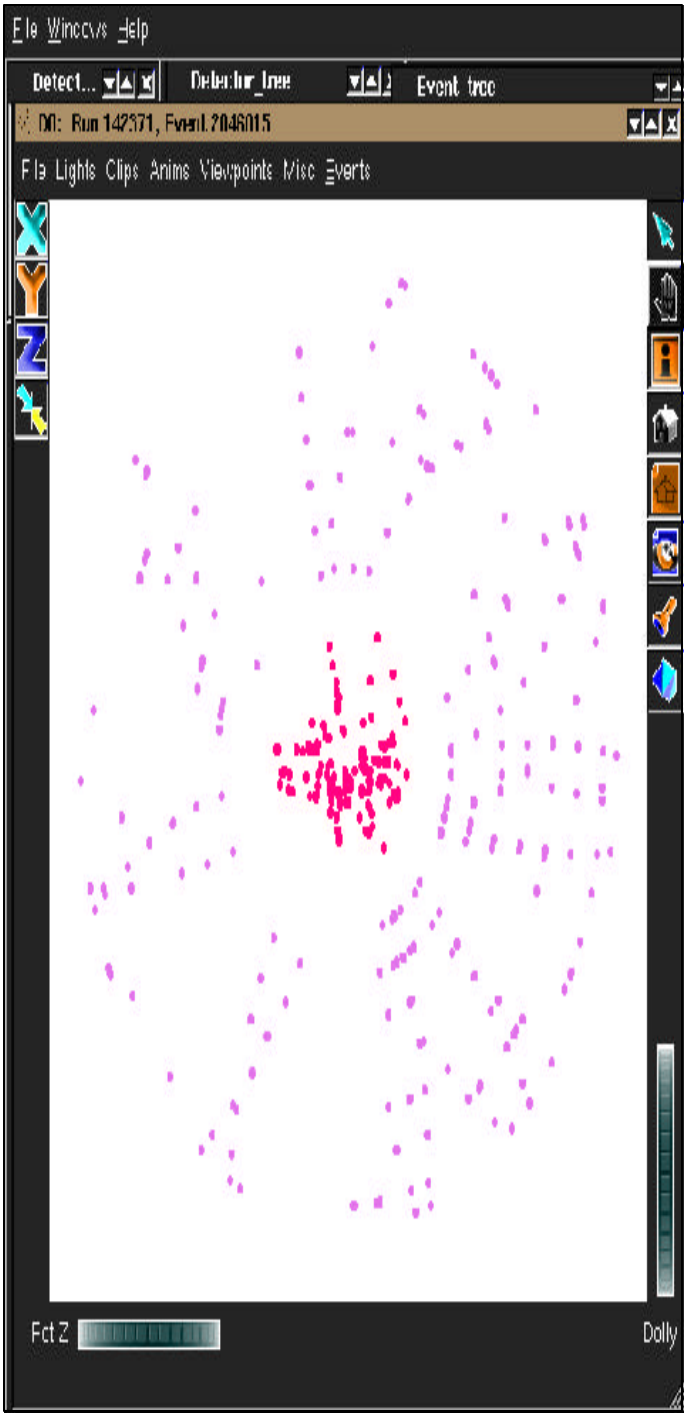
D0 Status

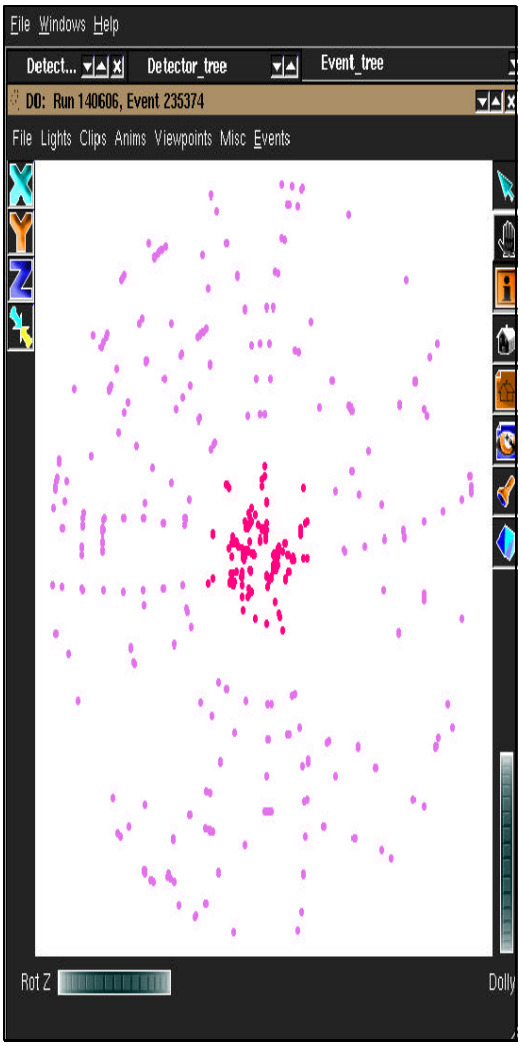
- Luminosity detector
  - stable running
- Silicon detector
  - powered 93% working reasonably smoothly
- Fiber tracker
  - ~110 AFEs boards are installed
    - all axial layers
    - one fully (all axial and stereo layers) equipped sector
    - all axial central preshower layers are equipped
    - AFE boards mass testing is on hold (see below)
  - VLPC temperature control issue
    - on large number of AFE boards VLPC heaters circuit is not functioning properly
    - required stability is 0.1K
    - experts developing plan how to resolve this issue (modifications to all AFEs will be needed)
  - in process of commissioning



Equipped CFT stereo layers

Hits in SMT and CFT



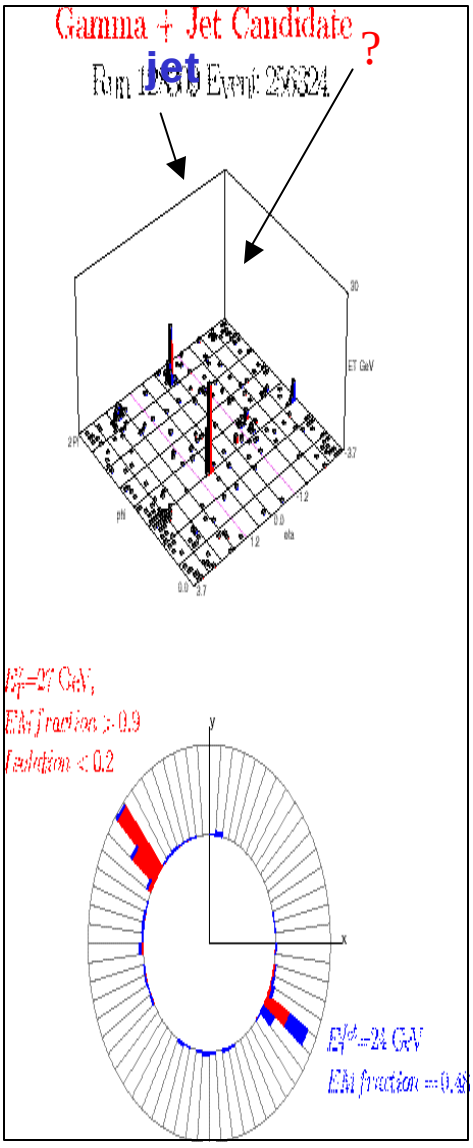


D0 Status

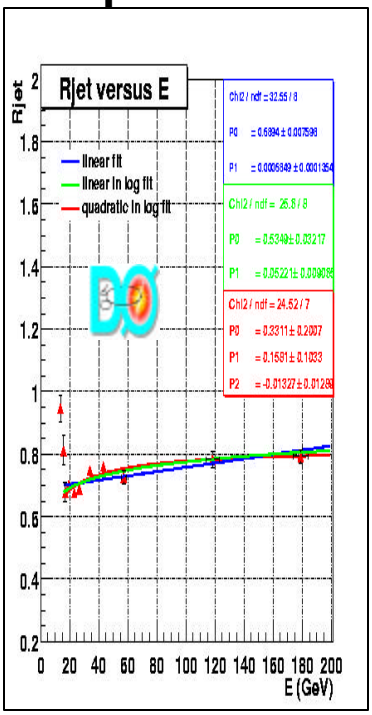
- Calorimeter
  - running smoothly
- Muon system
  - all central muon chambers are working
  - forward muon tracking detector operating currents are well within estimates
  - running smoothly
- FPD detector
  - insertion of pots and their commissioning is progressing well
- Trigger
  - running global trigger list version 3.1
  - 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 with forward muon system started
- DAQ
  - limiting factor in terms of dead time and number of events written to tapes
  - able to run stable at ~8Hz rate to tape
  - developing short and long term plans of the DAQ system improvements
- Currently no access requests
- This week plan is to concentrate on
  - stable global data taking
  - fiber tracker commissioning

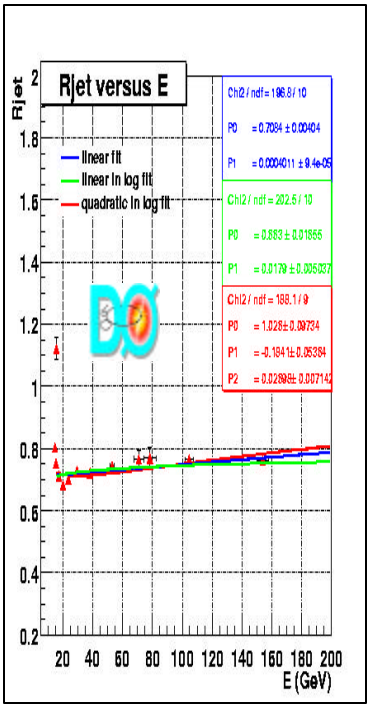
Jet Energy Calibration

Calorimeter Response in CC+EC



Pre-shutdown Data





Post-shutdown Data