



# Status Report

## Week of 2003 March 3-9

- In Supervised Access all week
  - Search & Secure was done Sunday evening
- Significant commissioning efforts
  - Tracking Trigger
  - Forward Proton Detector
    - AFE Boards & Pot motion/positions
- Continued debugging
  - Calorimeter: Small fraction of channels
    - Drifting pedestals over period of weeks
      - Replaced Switched Capacitor Array (SCA) chips
  - Muon Trigger
  - L2 Online Code
  - Silicon VRBc firmware
- Quiet time studies
  - Special runs without beam & w/HV on



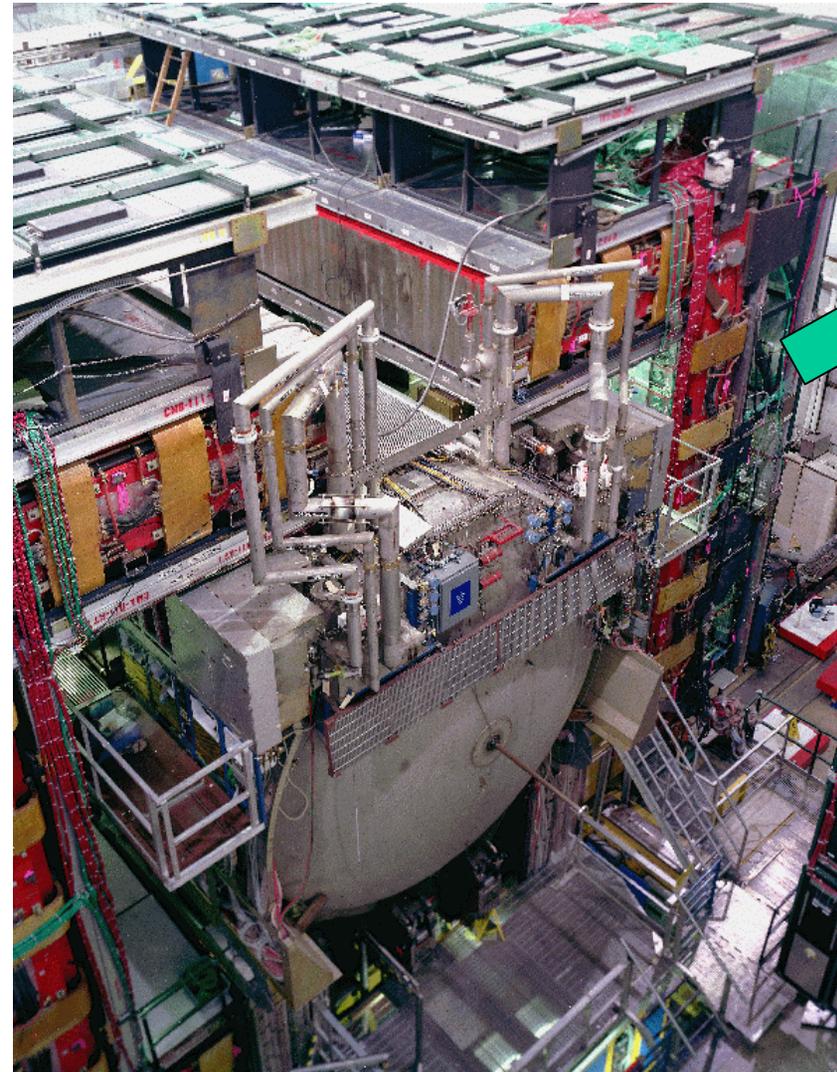
# Calorimeter Preamp Fans

- Replaced all Calorimeter Preamp fans during the January Shutdown
  - Preventative measure as three fans had failed last year
  - 12 Preamp boxes, each with two small and one large fan near the heat exchanger
  - All fans were inspected and tested
  - We have run > 1 month with no failures
  - Manufacturer quotes an expected 10% failure > 55k hours
- Wed Mar 5<sup>th</sup> Eve Shift
  - Shifter noticed a minor alarm on one of the temperature readings displayed in the control room
  - Expert was paged & advised shifter to log problem and it would be investigated on Thur morning
  - But...communication mishap
    - High temperature was rediscovered on Friday afternoon
- Temperature rose from 43 C to 59 C and has been fairly constant over the weekend
  - Borderline of minor/major alarm limits
  - Likely only one fan has failed
- To replace fan, we would need an access of about 12 hours
  - 4 hours each to open & close either North or South & West Muon End Iron, and to raise scaffolding in the Cathedral to the Calorimeter Preamp boxes
  - 4 hours to disassemble box and replace failed fan
- As Tevatron had declared they were ahead of schedule on Saturday, we could not open detector without impacting Tevatron operations
  - Decided to assume risks and wait for:
    - a) Natural gap in Tev operations or
    - b) Further increase in temperature or other fan failure

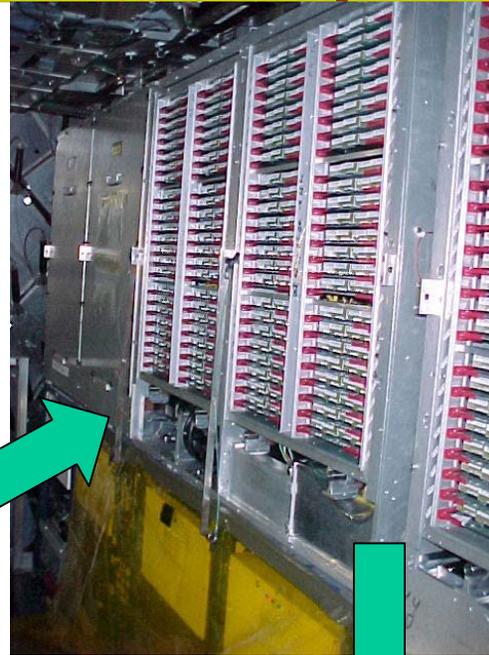
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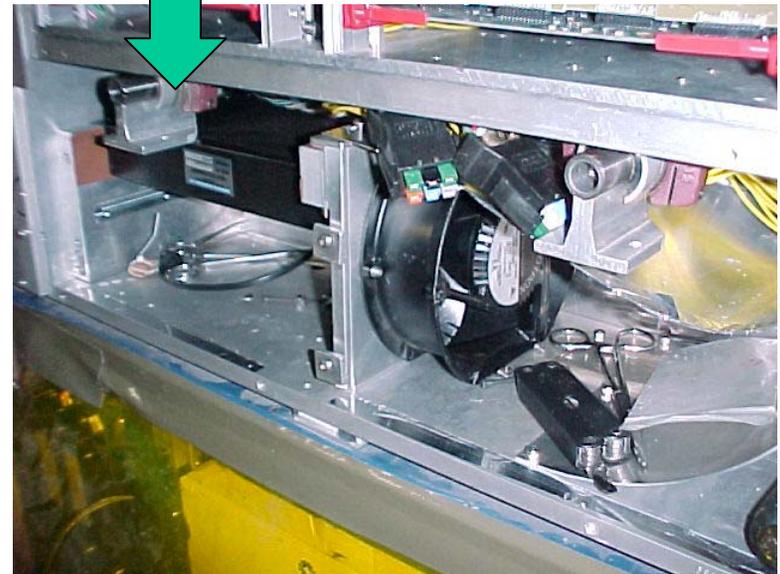
# Calorimeter Preamp Fan Failure?



10 March 2003 - All Experimenters' Meeting



Slide from  
7 Oct 2002  
AEM talk



Alan L. Stone - Louisiana Tech University



# Plans for Upcoming Week

- Aside from CAL Preamp Fan, there are no other outstanding problems
  - Will let Ron or Keith know if/when fan status changes
  - Controlled Accesses for continued commissioning efforts are welcome as they become available
    - From 1 hour or more
- Prepared to take data at any time
  - All systems up and ready!
- Reminder: D0 Wine and Cheese seminar on Winter Conferences results on **Friday March 14<sup>th</sup>**
  - Brad Abbott, University of Oklahoma
    - Recent D0 results in B, QCD, Electroweak and Top/Higgs Physics**