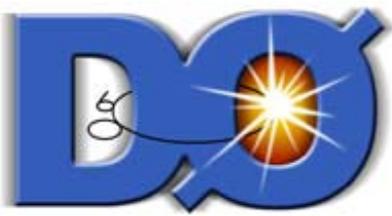




# Shutdown Update

George Ginther  
15 October 2007



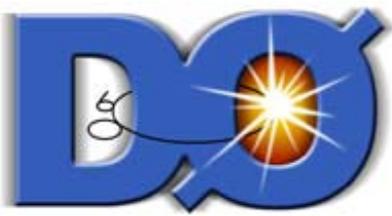
# Final Week of Shutdown

- **Monday**
  - Close up detector
  - Search and secure collision hall
  - Power up solenoid and toroid tests
  - Record cosmic triggers with full detector during evening shift
- **Tuesday**
  - Supervised access to collision hall resumes
  - South B Layer VStar survey and closing survey
  - Record magnet off cosmics
- **Wednesday**
  - Complete survey
  - Open clam shells and insulate of low beta quads
  - Clean south west central muon proportional drift tube high voltage distribution cards
  - Complete installation of AFEII boards for Forward Pre-Shower readout
- **Thursday**
  - Complete insulation of low beta quads
  - Resume scheduling full shift coverage
    - Exercise examines and other monitoring tools with all detectors in global run (on new platforms)
  - Extract wire from PDT for monitoring
- **Friday**
  - Close clam shells
  - Verify detector ready for search and secure by 1600
  - Search and secure collision hall
  - Record magnet on cosmic triggers
  - Continue exercising DAQ and detector to identify and address remaining issues
- **Saturday and Sunday**
  - Record magnet off cosmic triggers
  - Continue exercising DAQ and documenting and addressing misbehaviors



# Recent Developments

- Operating detector around the clock in attempt to expose issues
  - Shifters exercising monitoring tools and examines
  - Experts investigating features
    - Continue to exercise and test new AFEII firmware (with TDC readout) and test associated software
    - MDT gas re-circulation under investigation
    - Minor individual channel PDT readout issue
- Encountered a failure this morning that will require access to the cathedral
  - Cal preamp power problem—expect this is a fuse failure
  - Prefer to get access to address this issue before the first store
    - Will require ~8 hours in the collision hall
- Thanks to lab for support of repair, maintenance and improvements implemented during this shutdown



# Startup Activities

- Prior to first store
  - Record magnet off and magnet on cosmics
  - Download new Central Track Trigger equations and Silicon Track Trigger look up table for new beam spot location
  - Prepare for new AFEII readout format
  - Complete preparations for Silicon Microstrip Tracker to benefit from recovered HDI
    - pedestal and threshold update for online and Level 3
  - Verify Silicon Track Trigger ready to handle recovered HDIs
  - Complete first pass in Inner Cryostat Detector high voltage optimization
- During initial stores
  - Verify BLM sensitivity
  - Verify luminosity monitor thresholds and timing
  - Implement improved Level 1 calorimeter trigger gain calibration
  - Commission new AFEII readout format
  - Integrate recorded luminosity
  - Monitor detector performance
  - Check detector calibrations
  - Prepare next trigger list for rollout