



2009
Shutdown
at DØ

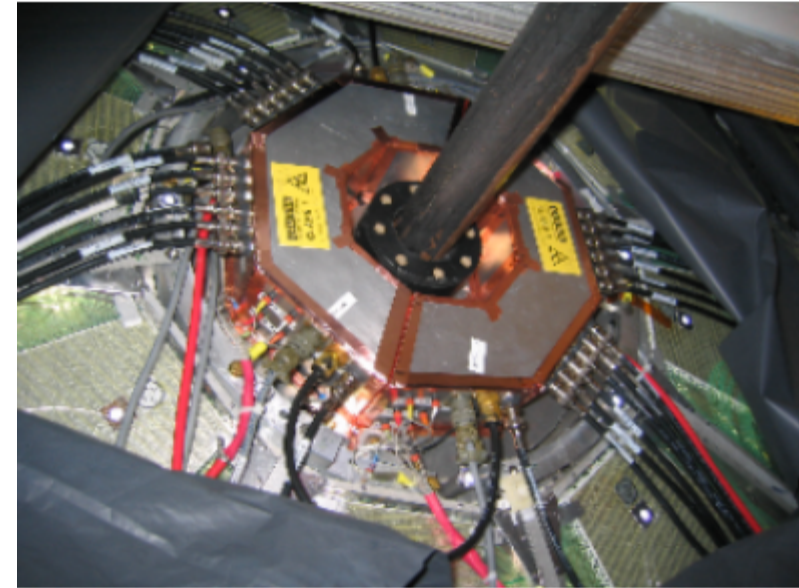
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for
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2009 Shutdown Activities

- **Liquid Nitrogen Dewar #39**
 - Repaired and back in service
- **Luminosity monitors**
 - Scintillators replaced
 - Luminosity monitors remounted
- **Silicon Microstrip Tracker**
 - Recovery of individual channels complete
 - Calibration and verification underway
- **Central Fiber Tracker**
 - Reduce readout deadtime via firmware enhancement
- **Inter Cryostat Detector**
 - Recovery of individual channels complete
 - Monitoring stability
 - High voltage adjustments expected before the end of shutdown





2009 Shutdown Activities

- Routine maintenance nearing completion
 - Individual channel recovery efforts
 - Power supply repairs and upgrades
 - Refurbishing blowers
 - Refreshing firmware in the forward muon system
- Internal DØ safety system tests complete
- Trigger framework maintenance complete
- Online cluster kernel upgrades were complete
- Still anticipating installation and commissioning of augmented data disks and disk server for online system prior to first collisions



Approaching the end of this shutdown

- Chiller situation is improved but still less than optimal
 - Both the Trane and York chillers encountered problems during the shutdown
 - Summer weather has generally been cooperative to date
 - Motor rebuilt to return York chiller to service
 - Plan to resume running in current configuration and address the Trane issues during the fall or winter (when reserve capacity should not be needed)
- DØ detector closed on 25 August
 - Closing survey scheduled for later this week
 - Currently have scaffolding on west side of detector to facilitate maintenance on central muon HV distribution to minimize sensitivity to humidity
- Routinely running recorded cosmic triggers overnights for monitoring and alignment
- Expect to request collision hall secure on Friday to run magnet-on cosmics over the holiday weekend
- Attempt to routinely operate detector to insure clean reliable and efficient detector start-up at end of shutdown
- Eagerly anticipating the return of collisions