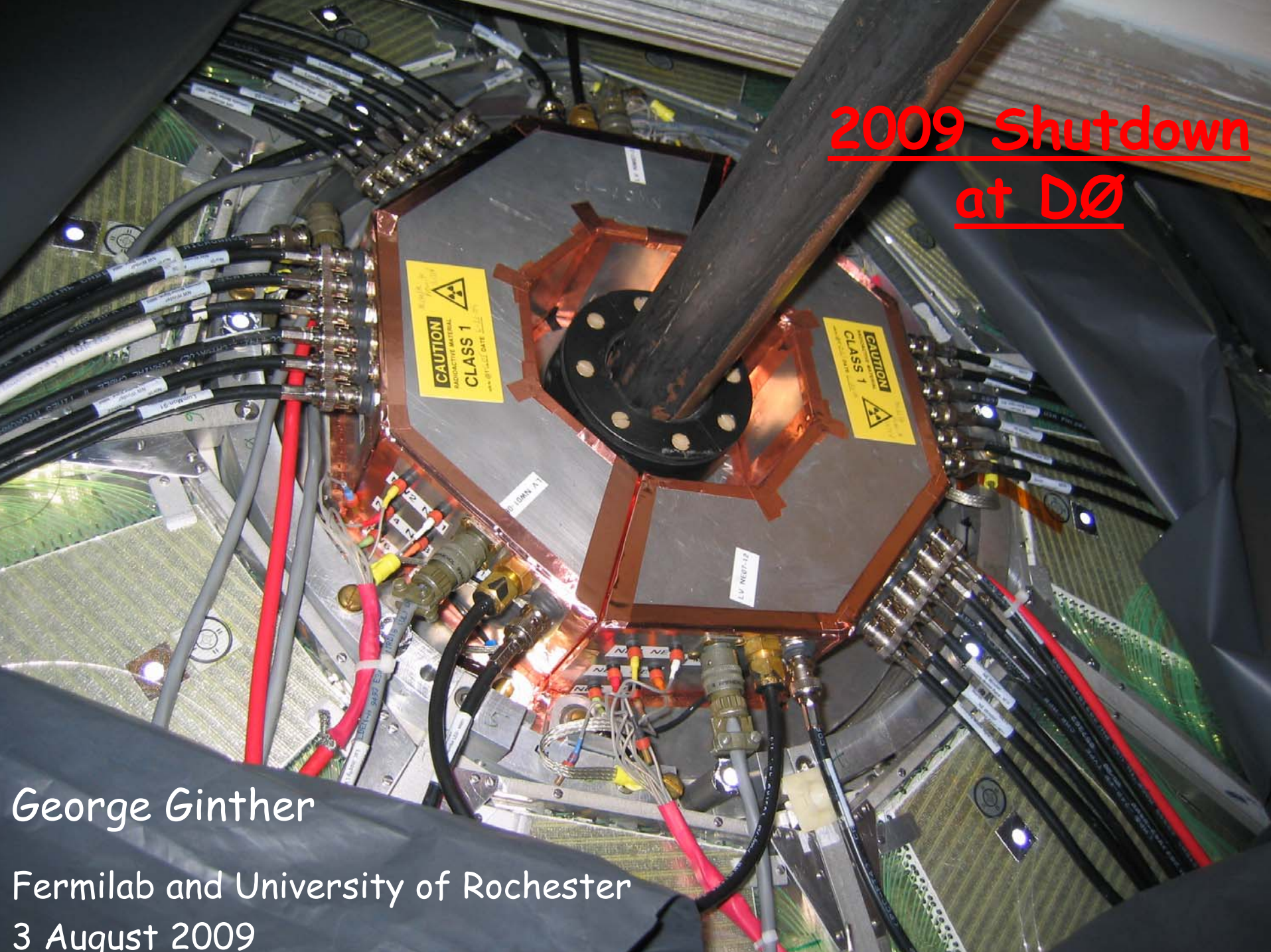
2009 Shutdown at DØ



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2009 Shutdown Activities

- Routine maintenance well underway
  - Individual channel recovery efforts
  - Power supply repairs and upgrades
  - Refurbishing blowers
  - Online cluster kernel upgrade installations
- July site-wide power outage
  - Internal DØ safety system tests performed
  - Trigger framework maintenance addressed
  - Recovery from power outage complete
    - Only relatively minor problems generated by this particular outage

2009 Shutdown Activities

- Luminosity monitors
  - Scintillators replaced
  - Luminosity monitors remounted
  - Verification underway
- Silicon Microstrip Tracker
  - Efforts to recover individual channels nearing completion
  - High voltage testing underway
- Central Fiber Tracker
  - Reduce readout deadtime via firmware enhancement
- Inner Cryostat Detector
  - Recovery of individual channels complete
  - Monitoring stability
  - High voltage trimming in the near future
- Liquid Nitrogen Dewar #39
  - Repairs of internal leak complete
  - Vacuum jacket pumpdown in progress

Emerging from this long shutdown

- Chiller status is currently less than optimal
  - Summer weather has been cooperative to date
  - Magnet power supplies are off
  - Motor out to be rebuilt
    - expected back next week
  - Investigation of an unrelated chiller problem will begin as soon as motor is back online

- Plan to have the DØ detector in the closed configuration by 25 August
  - Search and secure to facilitate powering on magnets
  - Requesting another survey of detector once it has been closed
  - Maintenance on muon HV distribution to minimize trips
- Plan to routinely run recorded cosmic triggers by 4 September

- Attempt to routinely operate detector to ensure clean reliable and efficient detector start-up at end of this shutdown