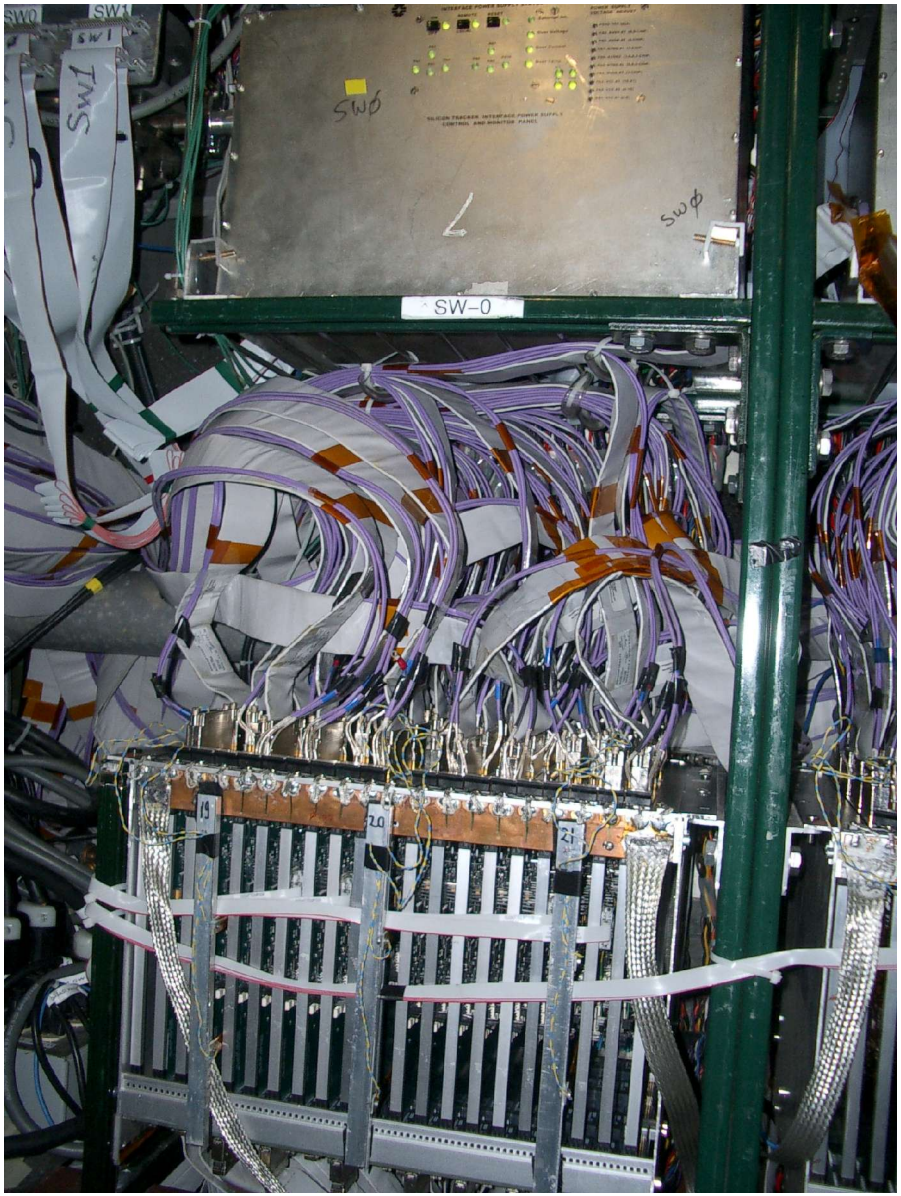
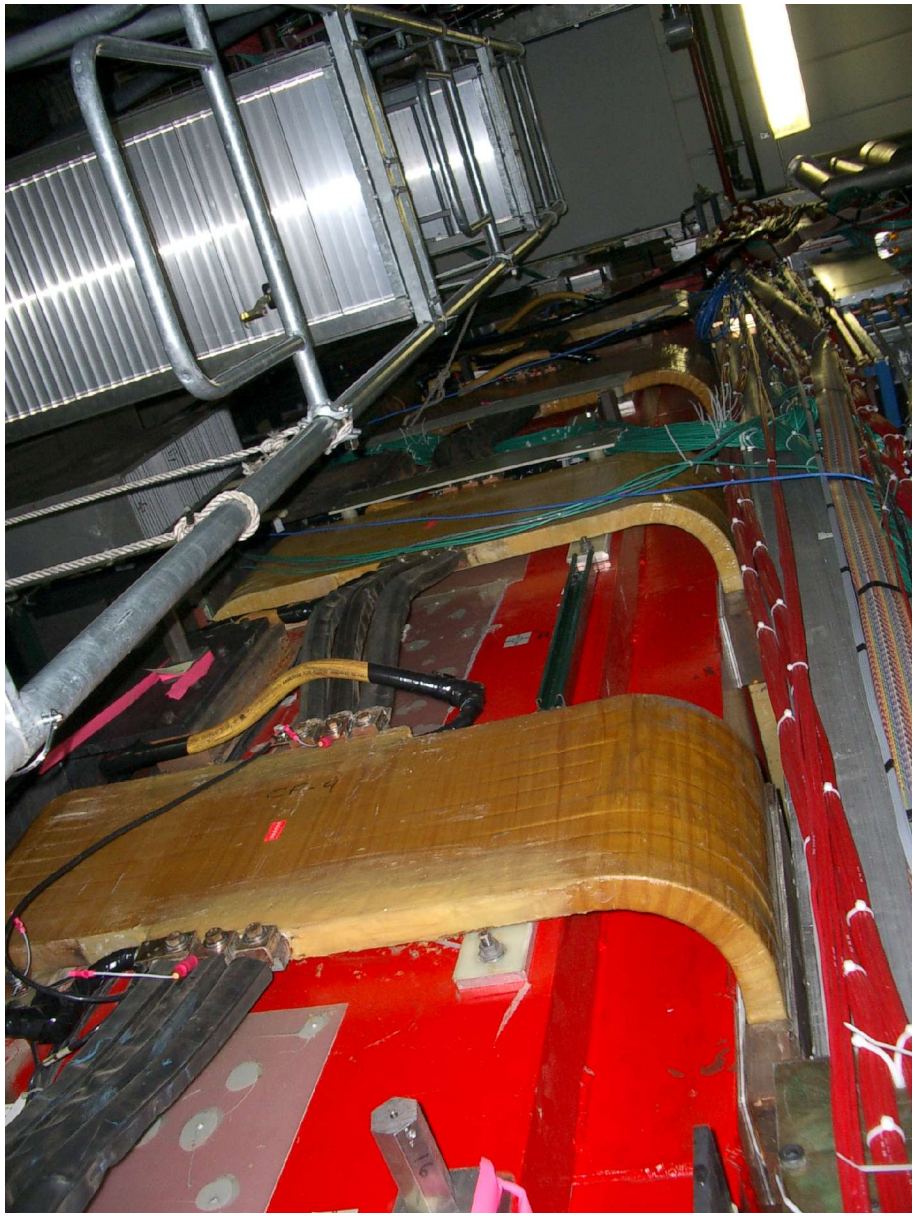
Shutdown Progress – SMT

- Thursday evening, **one of the interface board power supplies in the West cathedral area failed**
- **Opened West CF** (North and South EF irons open all week) Friday morning
  - Replaced power supply
  - This was the " untested spare" we had to install 7 weeks ago as a consequence of a water leak



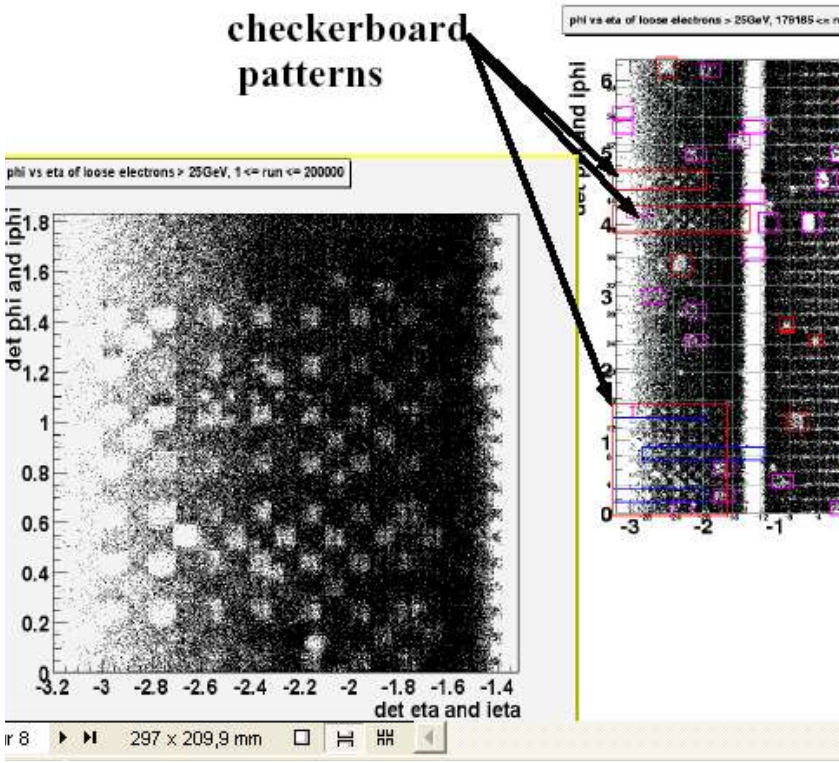
Shutdown Progress – Toroid

- Attempt to **reproduce / understand toroid related noise** (Monday)
  - Tried to raise humidity
  - Run magnet up to 2500A (normal operating point is 1500A)
  - **No noise observed**
- **Prevent future occurrence of noise**
  - All magnet connection bolts were torqued to 55 foot pounds
    - Some were quite low – one required about 1.5 turns to get to 55 foot pounds
  - Measured west CF taps (10 coils) with $\mu\Omega$ meter
    - Resistances ranged from 5 to 11 $\mu\Omega$
    - One was 27 $\mu\Omega$ (65 W at 1500A) – low torque, took ¾ turn to get to 55 ft pounds
  - Installed voltage taps on the West side



Shutdown Progress – CAL

- **"Checkerboard problem"** – resolved!
- Discrepancy between L1 and precision readout for high E_T EM objects in certain region of the calorimeter
- Can correct offline
- Discrepancies between reported gain and ADC counts
- Traced down to tight timing interval between arriving control signals
  - Relaxed timing in firmware



η/ϕ distribution of all candidate EM objects:

p_T > 25 GeV
EM fraction > 0.9
isolation < 0.15
HMx8 < 20

Shutdown Completion

- **Detector closed** (remove scaffolding, close EF's + West CF) this morning
- **Secured collision hall** by 14:30
- **Running magnet** for ~24 hours from Monday afternoon
- Plan to **take cosmics** with the complete detector tonight / tomorrow
  - We need access time Tuesday afternoon or Wednesday to complete outstanding work in the collision hall