



2006 Shutdown Update

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3 April 2006

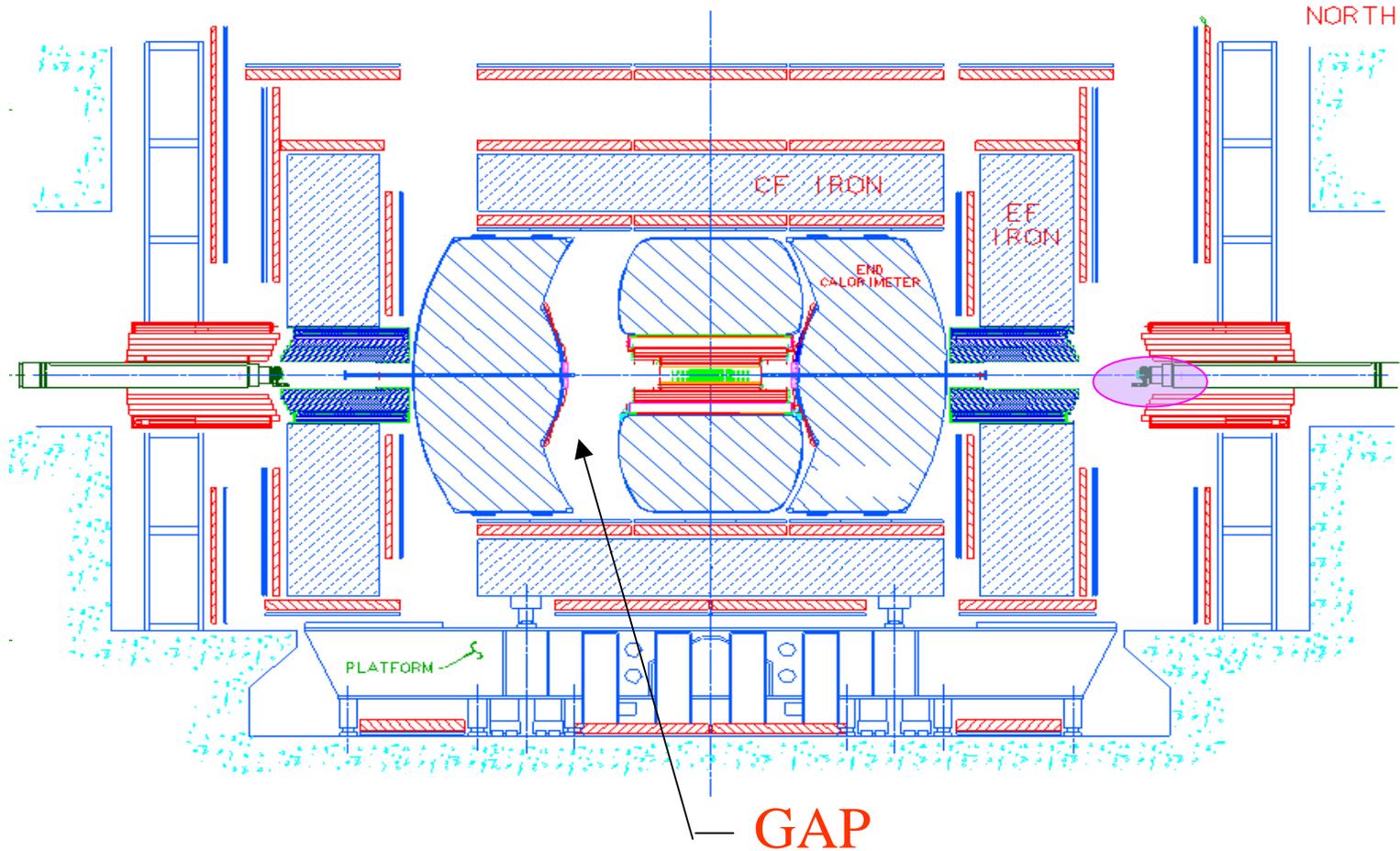


Layer 0 Installation

- Reconfigured detector and extract SNEG beampipes
- Cut flanges off EC beampipes
- Uncabled and removed H disks
- Extracted Run IIa beryllium beampipe from SMT
- Installed and tested new adapter cards
- Reconfigured detector
- Removed Run IIa beampipe from collision hall
- Transported Layer 0 to DZero
- Inserted Layer 0 into North EC beampipe
- Inserted Run IIb beampipe into North EC beampipe
- Installed south Layer 0 mount on SMT support structure
- Current preparing to install north Layer 0 mount

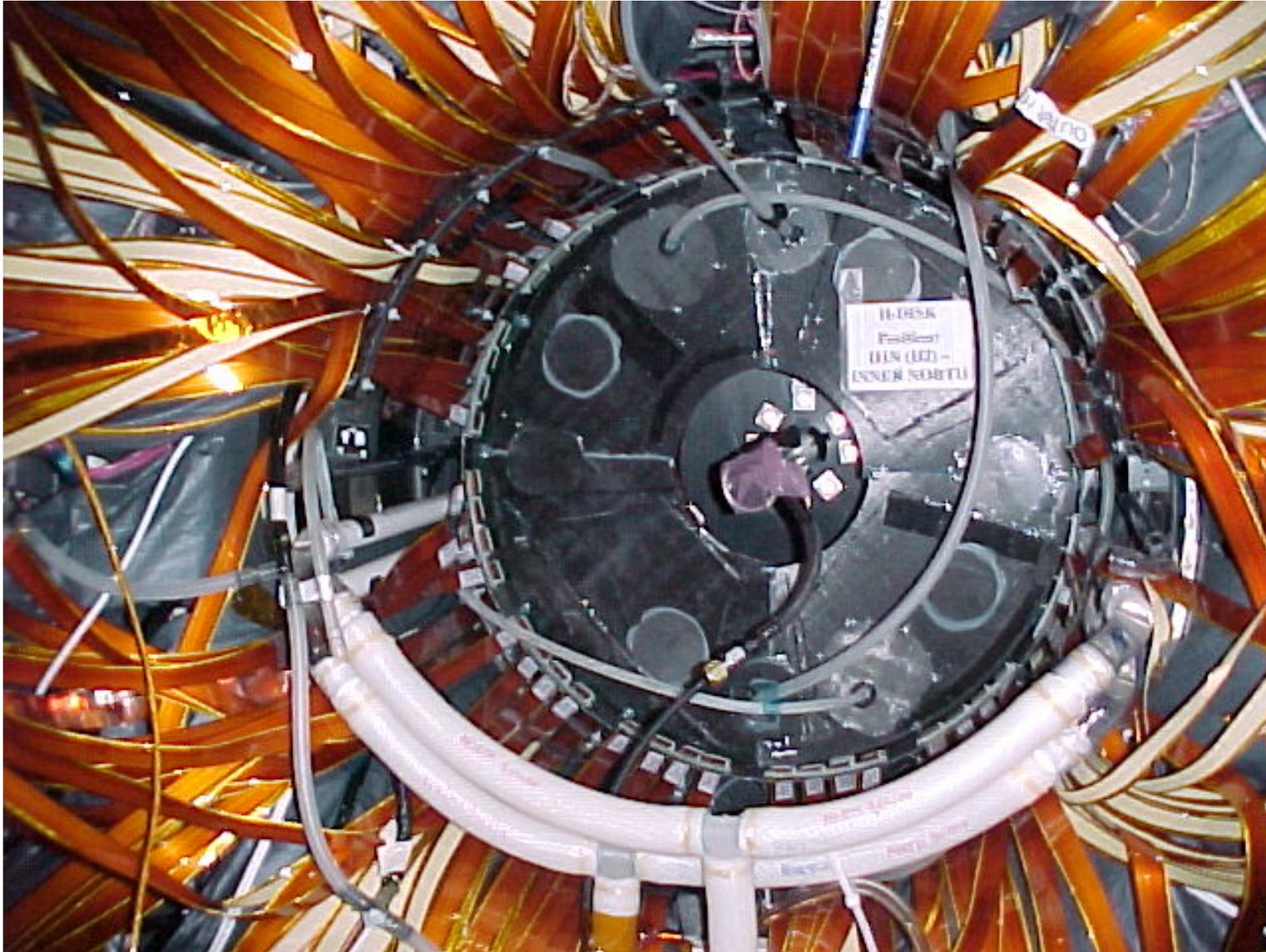


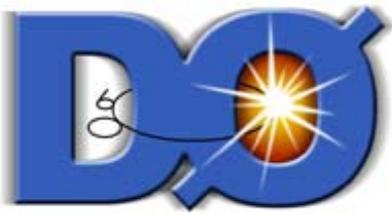
South EF and EC open allowing access to the south gap (assuming CF is also open)



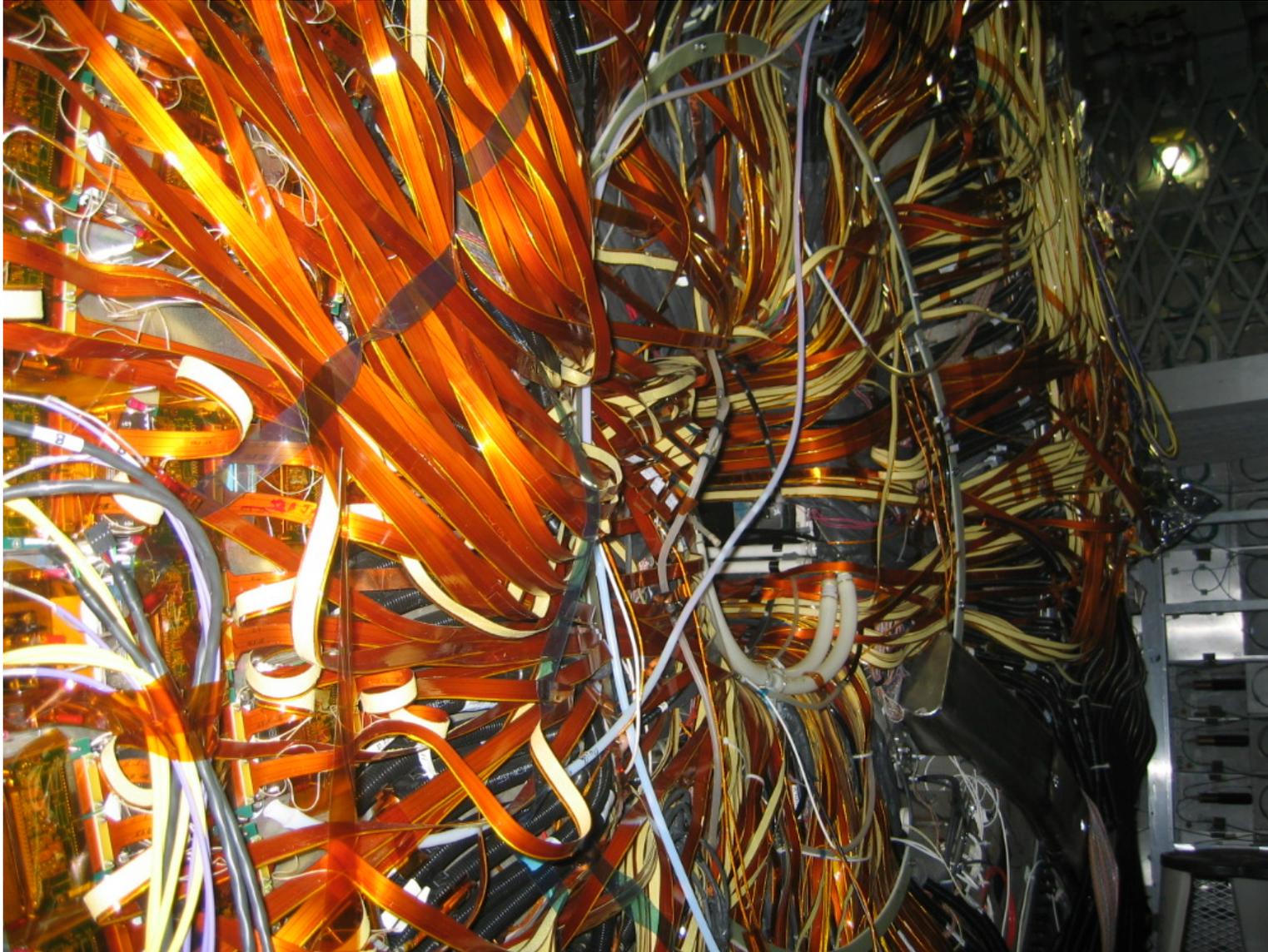


North Inner H Disk Exposed



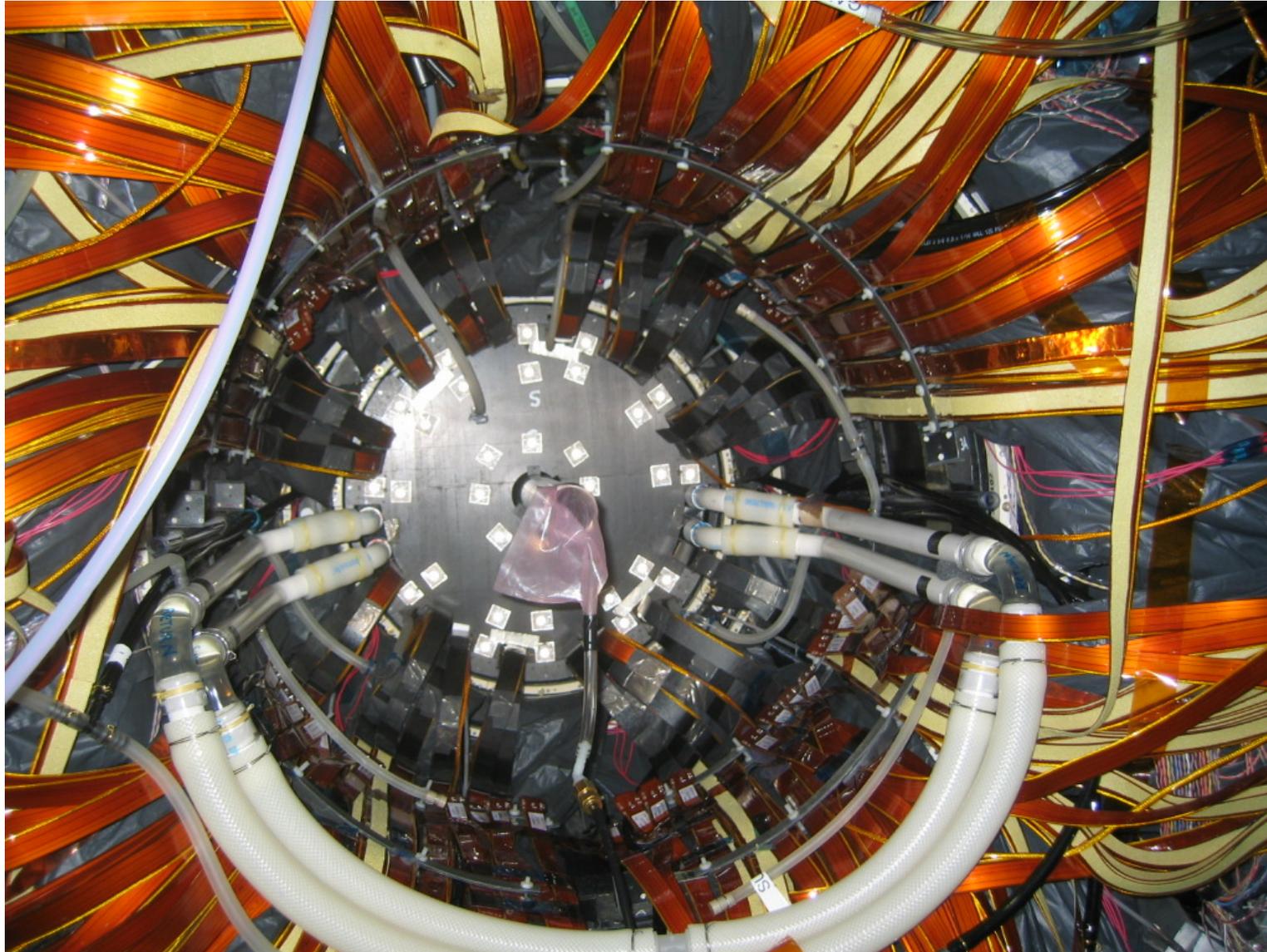


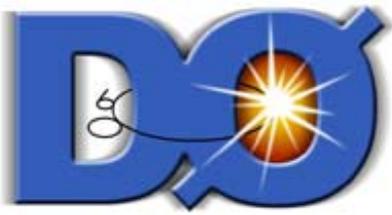
South Face of Central Calorimeter



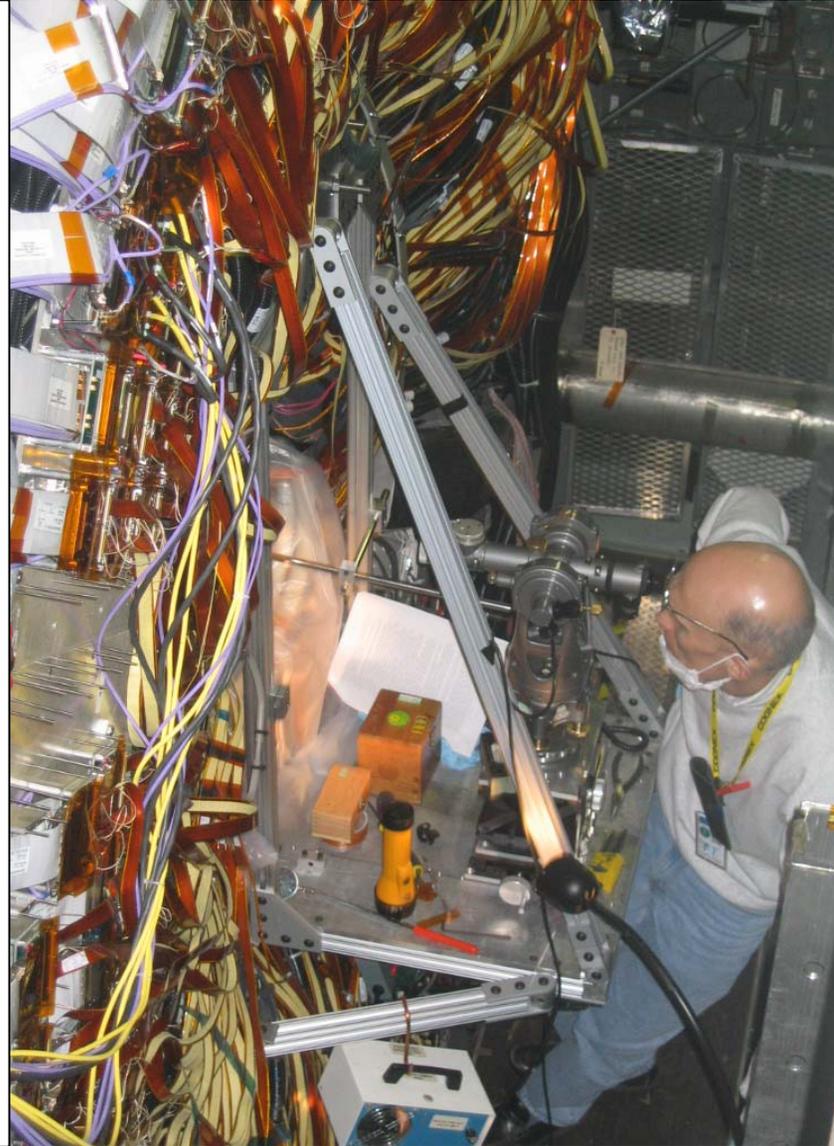
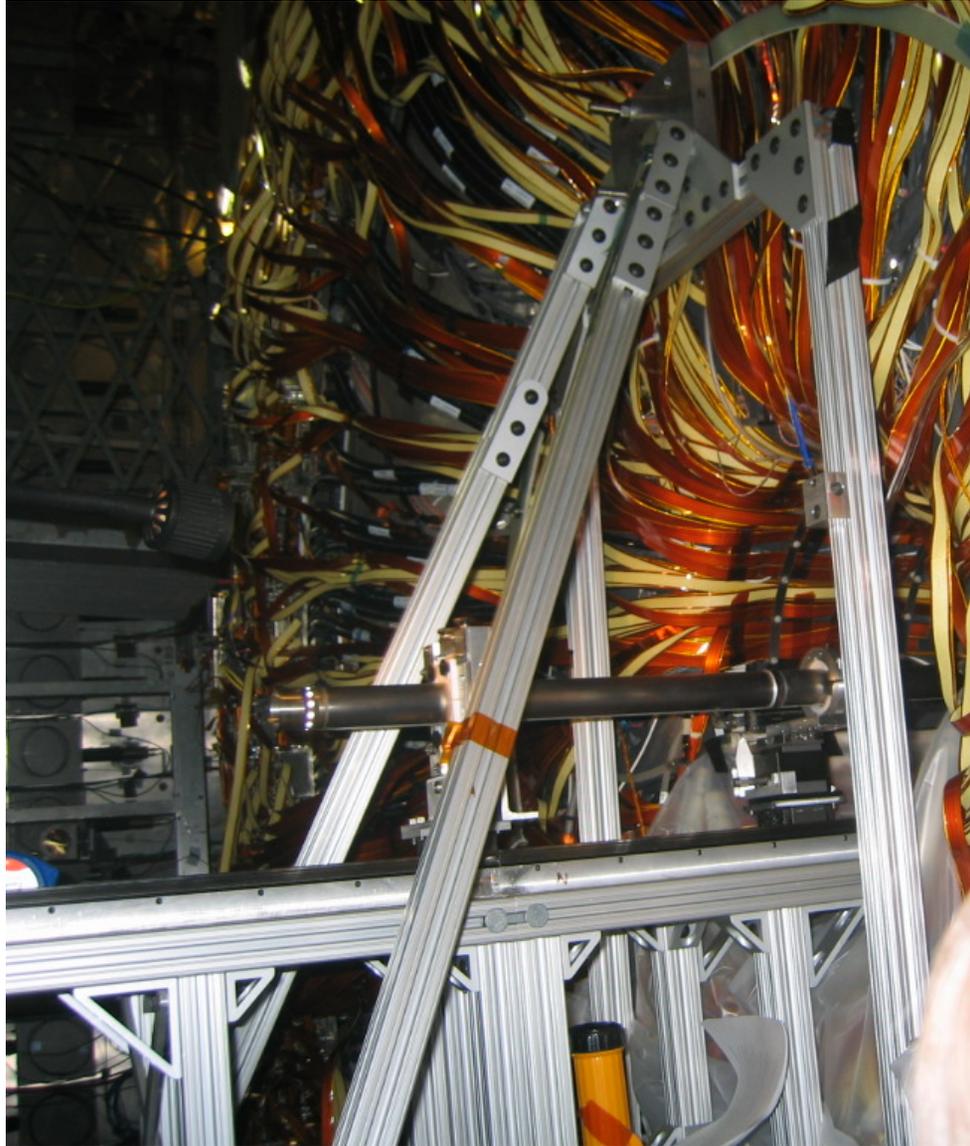


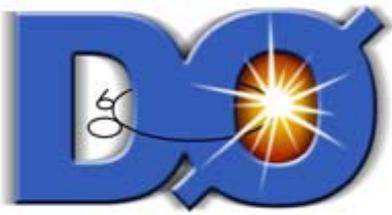
South End of SMT Exposed





Extracting RunIIa Beampipe



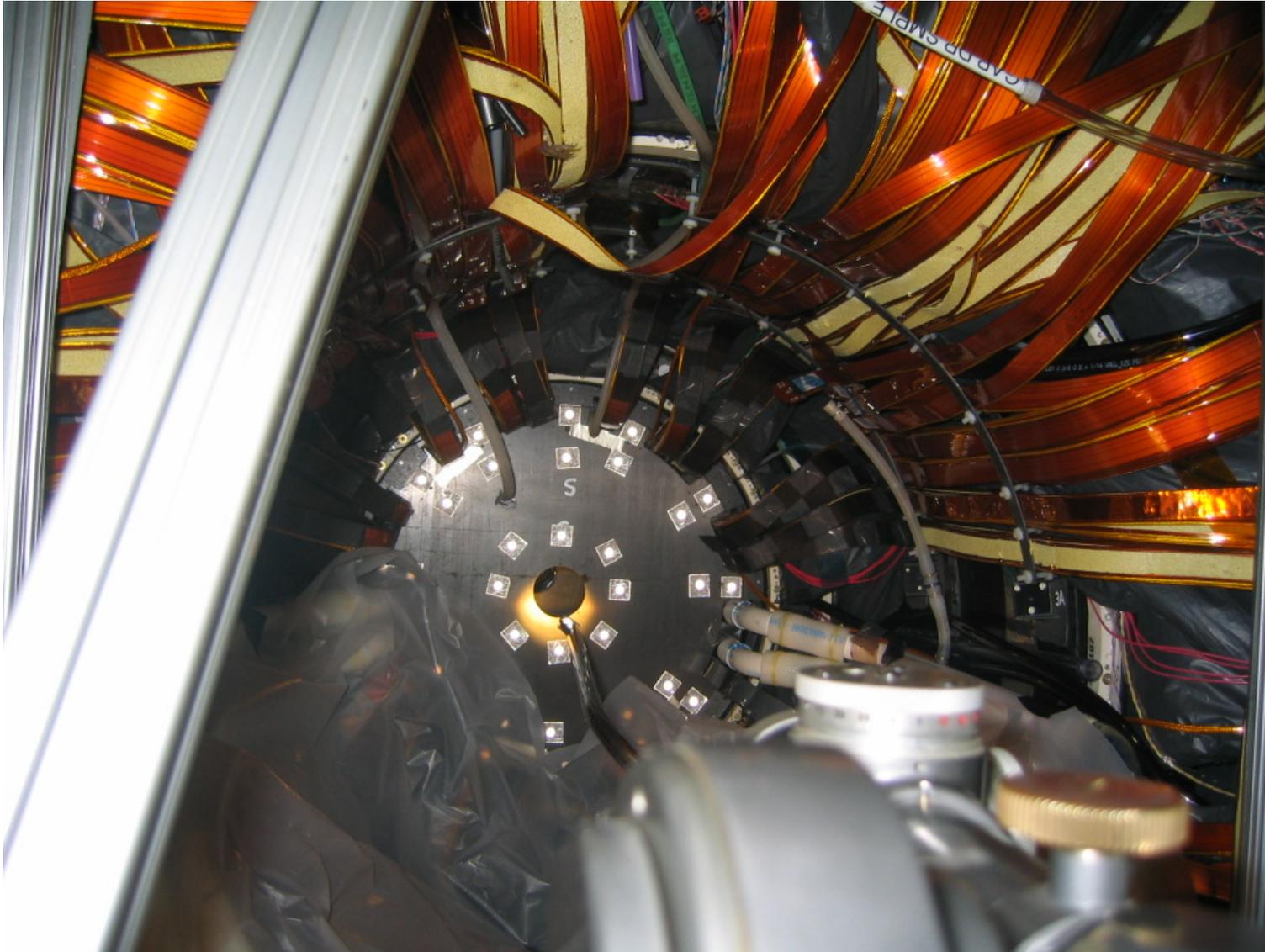


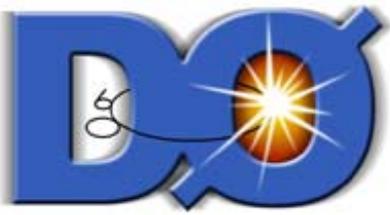
Extracting RunIIa Beampipe





North end after RunIIa beampipe removed





Packaged Layer 0



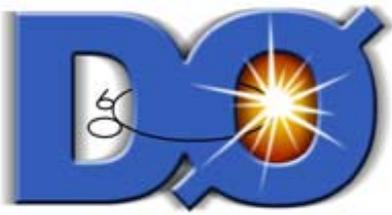


Inserting Layer 0 into North EC Beampipe



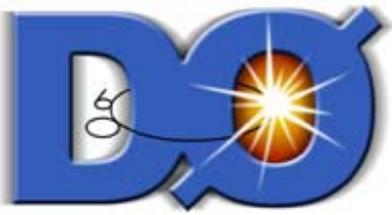
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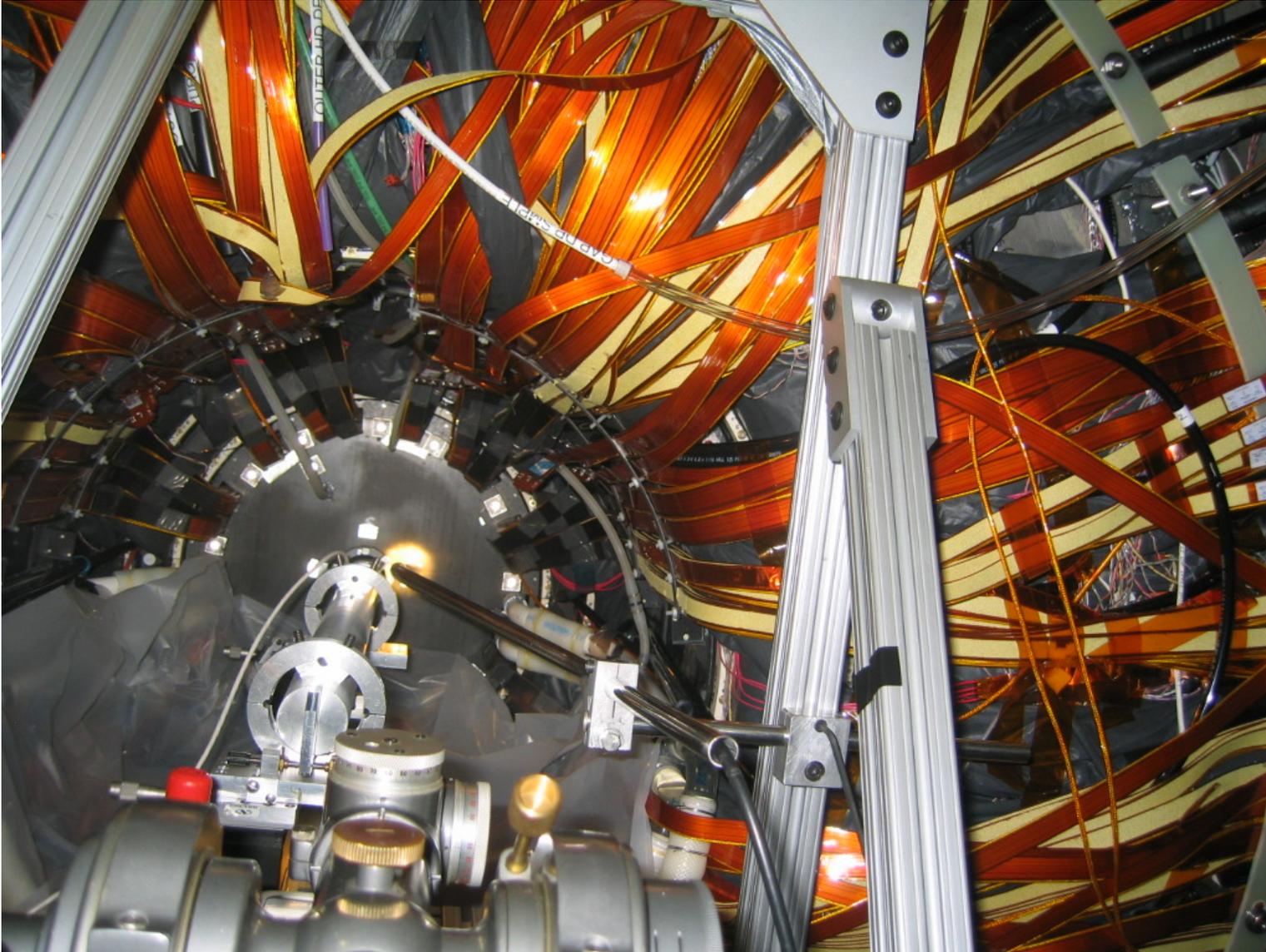


South Layer 0 Mount





South Layer 0 Mount





Layer 0 Installation Milestones

ID	TASK NAME	Actual	Current Forecast	Pre-Shutdown Forecast	Milestone Dates
2	Beginning of RunIIb Tevatron Shutdown	2/23/06		2/27/06	2/27/06
28	Detector Open, Ready for Access	3/1/06		3/2/06	3/07/06
34	RunIIa Be Beam Pipe Disconnected	3/3/06		3/7/06	3/9/06
47	H Disks Removed	3/15/06		3/17/06	3/23/06
56	RunIIa Be Beam Pipe Removed	3/21/06		3/27/06	3/31/06
75	Layer 0 Tooling and Mounts Ready		4/7/06	4/10/06	4/17/06
79	Layer 0 Installed		4/11/06	4/12/06	4/19/06
91	RunIIb Be Pipe Connected, Layer 0 Cabled		4/25/06	4/26/06	5/03/06
94	Inner H Disks Re-Installed		5/1/06	5/2/06	5/9/06
99	Silicon Cold and Ready for Technical Commissioning		5/4/06	5/5/06	5/12/06
103	Complete Technical Commissioning of Silicon		5/10/06	5/11/06	5/18/06
118	Detector Closed for Tevatron Resumption		6/01/06	6/02/06	6/4/06



Level 1 Trigger Upgrade Installation

- Level 1 Calorimeter Trigger
 - Removed Run IIa L1 Cal trigger and associated infrastructure
 - Installed and tested infrastructure for Run IIb Level 1 Cal
 - Moved L1 Cal trigger crates into final locations
 - Began verifying L1 Cal trigger installation
 - Began routing input (BLS) cables to patch panels
- Level 1 Central Track Trigger
 - Uncabled DFEBs, and remove crates
 - Installed DFEB2 crates
 - Installed DFEB2s
 - Cabled LVDS inputs and outputs to DFEB2s
 - Began verification of cabling
- Preparations for trigger latency change progressing



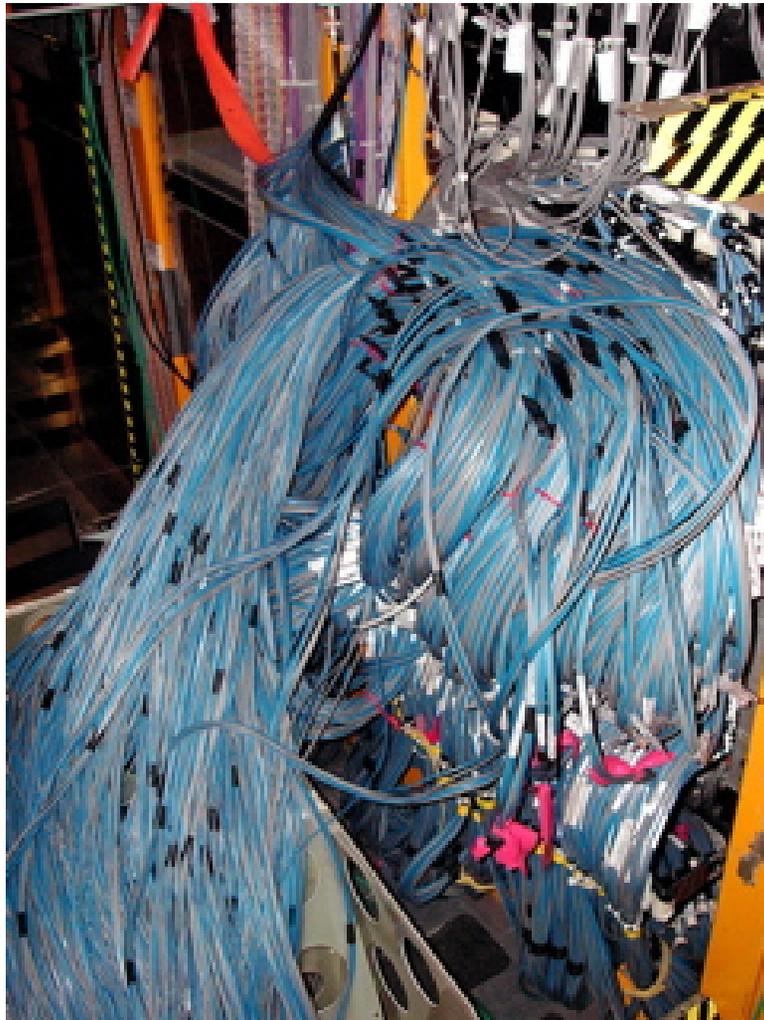
Level 1 Calorimeter Trigger



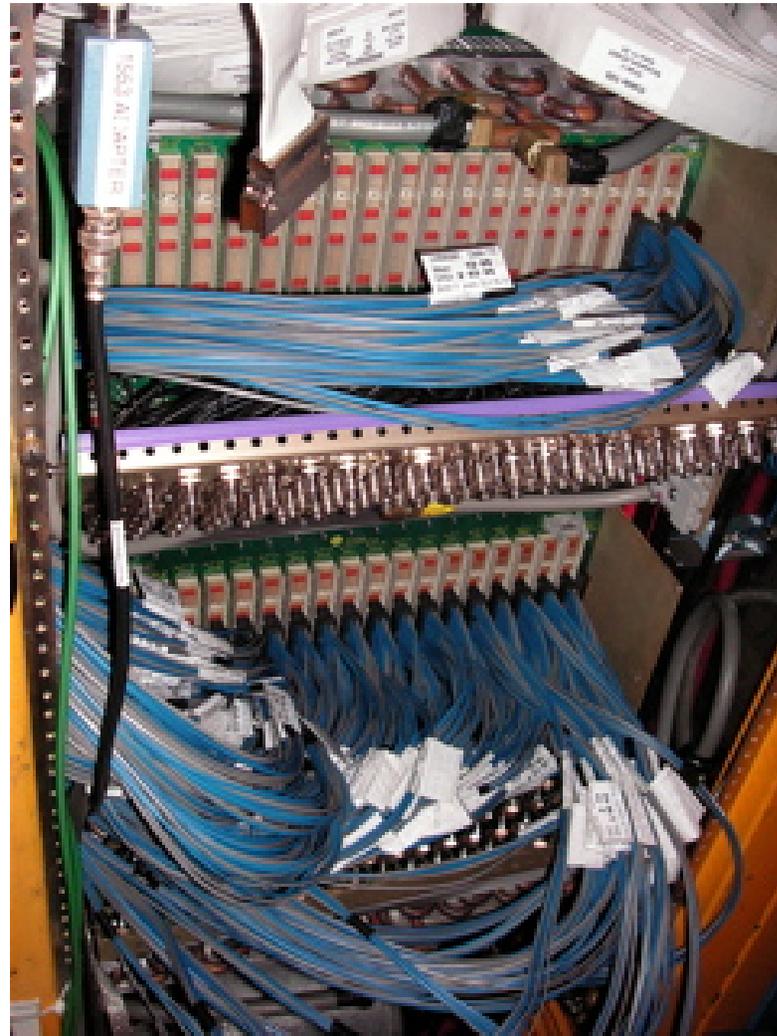


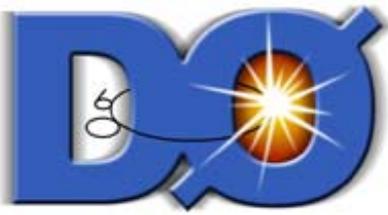
Level 1 Central Track Trigger

LVDS Cables out of Mixer



LVDS Cables into DFEA2 Crates





L1CTT DFEA2 installed





Detector Maintenance

- Detector maintenance activities in progress
 - Controls processor upgrades
 - Operating system upgrades
 - Power supply maintenance/upgrades
 - Individual channel recoveries
 - Safety system tests
- Power Outages
 - Keep solenoid (and VLPCs) cold while helium compressors are offline
 - Recovered from Feeder 46B maintenance (8 March)
 - Electrical power distribution maintenance was performed on 1 April
 - VLPC cryostat leaks developed during this maintenance
 - Site-wide power outage this morning
 - Currently recovering from electrical distribution maintenance/site-wide power outage



Summary

- Shutdown involves substantial parallel efforts to install Run IIb upgrades of the DZero detector and make a smooth transition to commissioning and operations
- Need to complete the shutdown activities in a safe and timely manner
 - Already 28 weekdays days into 69 weekday shutdown (40%)
 - Most activities progressing well
 - No major upgrade related surprises detected (yet)
 - Many collaborators are making important contributions
 - Lab is providing significant support for these activities
 - Second shift support and activities have been very valuable in maintaining schedule