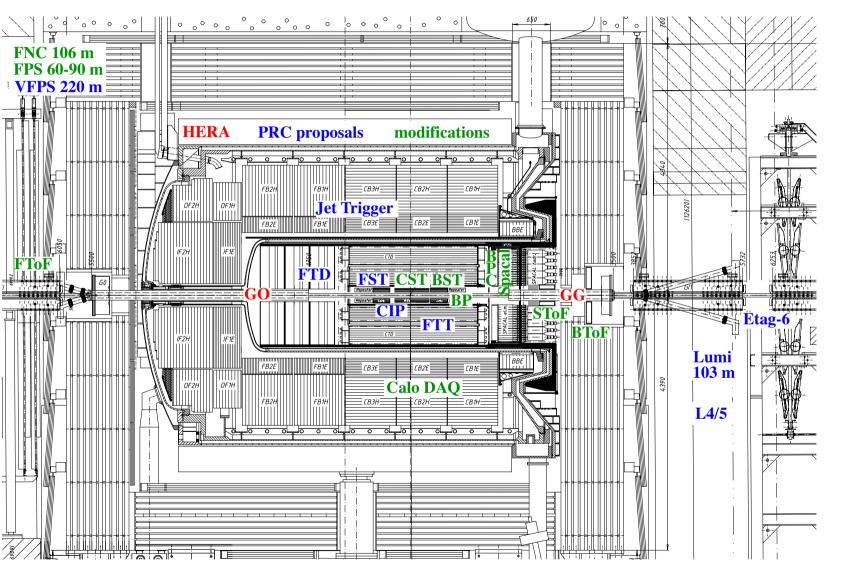
H1 Shutdown Status and Schedule

- Overview of Shutdown Activities
- Status
- Remaining Activities and Milestones
- Requests

Overview of H1 upgrade Projects



HERA / H1

- Beam pipe
- GO **√**
- GG 21.-29.5.

Tunnel-NL

- FNC ✓
- FPS √
- VFPS

Tunnel-NR

- γ-detector ✓
- e-tag 40m ✓

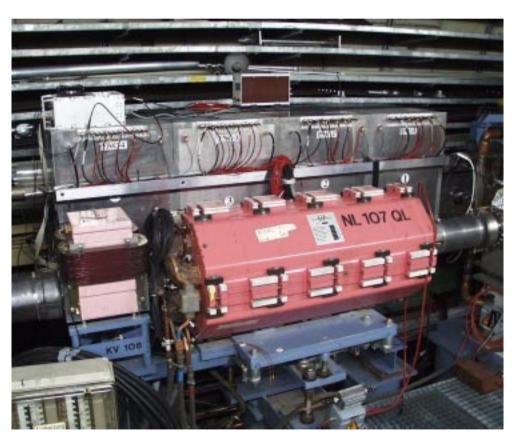
H1

- CIP ✓
- FTD ✓
- FST √
- CST ✓
- BST 16.-18.5.
- BPC 5.-15.6.
- SpaCal 13.6.-3.7.

New Tunnel Systems

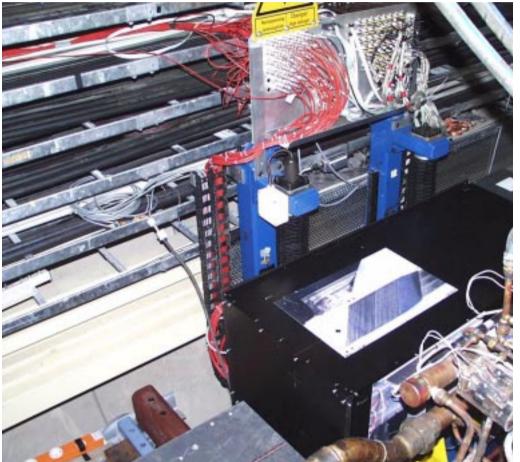
NL 105 m

- Forward Neutron Calorimeter FNC
- Lead/Scintillator sandwich (Moscow)



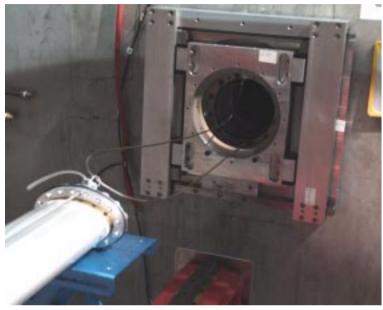
NR 103 m

- Photon detector
- Quartz fibre detector (Ecole Polytechnique)



GO and H1-Beam Pipe





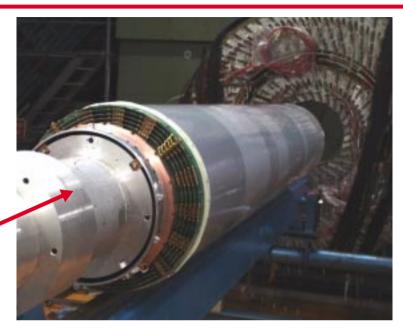


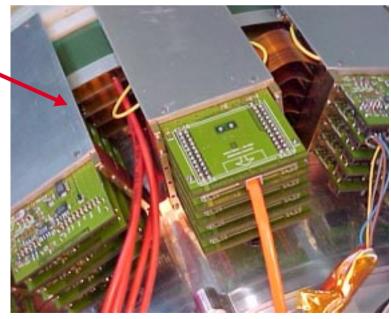
Movable supports at both ends of GO



Inner Proportional Chamber CIP

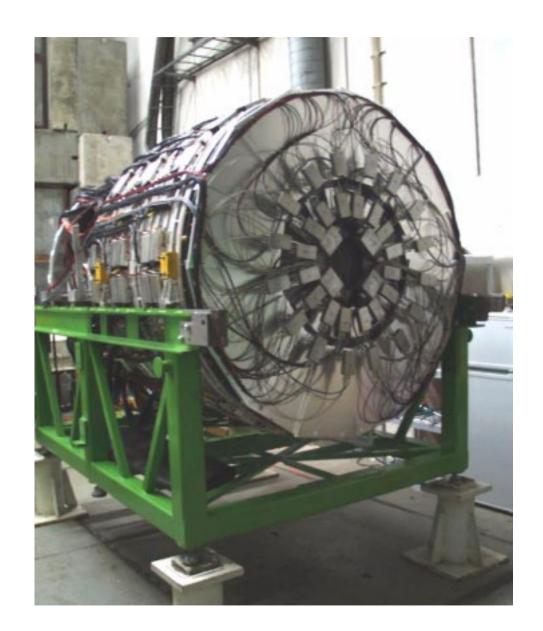
- 5 layer chamber built in Zürich
- 8500 read out channels
- mass production of 40 CIPix boards for optical read out was delayed (VCSEL, 90° light fibres, bonding, glue ...)
- in order to minimise impact on overall schedule (5 weeks): installation proceeded in 2 steps
 - 1) install CIP without electronics into CJC (20.2.)=> date for moving H1 could be kept
 - mount electronics only after H1 back in beam position (9.4.)
- electronic tests on chamber successful
- installation of electronics in trailor ongoing





Forward Tracker FTD

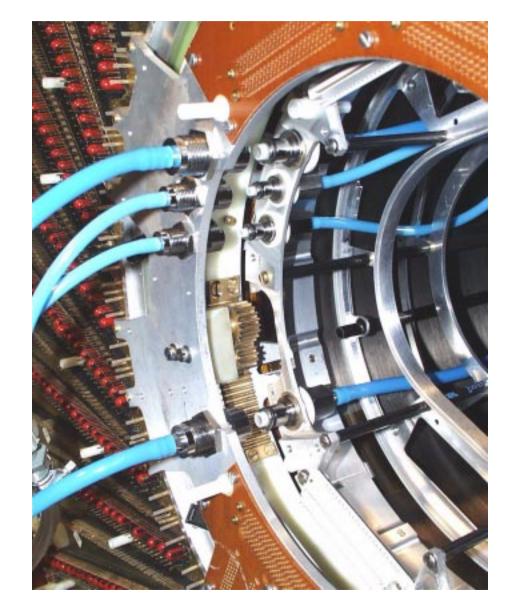
- 5 new 8-wire planar chambers built at RAL and inserted into FTD
- new segmented Scintillator Planes replace old forward trigger chambers
- some recabling in trailor still to be done
- waiting for cosmics for alignment



Forward Silicon Tracker FST

- 8 new planes built in Zeuthen
 - 5 u,v-planes (φ–coordinate)
 - -2 r-planes (radial coordinate for pattern rec.)
 - -82% of 2π covered in φ
- read out and water/N₂ connections via contact rin sitting in CJC at +z end
- successful detector installation from –z end 23.4.
- have to find ≈1000 electrical contacts at far end (≈2 m) remotely

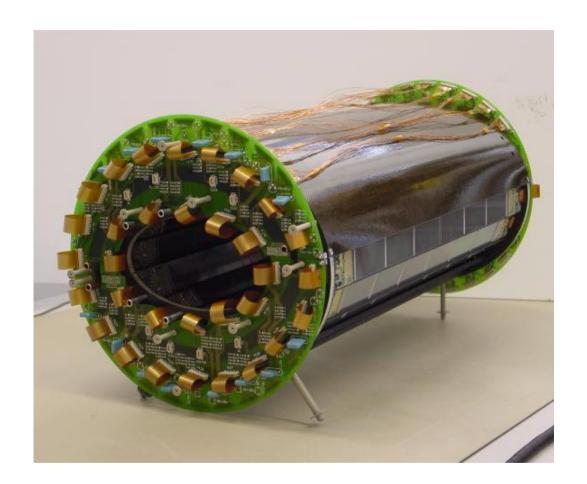




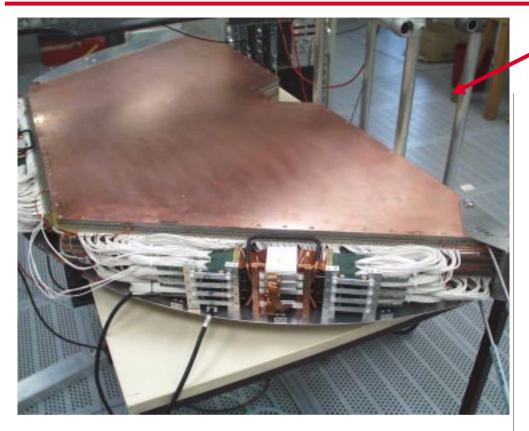
Modified Central Silicon Tracker CST

Necessary Modifications:

- change geometry to adapt to elliptical beam pipe
- replace APC chips by radiation hard chips (DMILL by ATMEL)
 - significant delays due to problems getting export license from France
- successful installation end of April

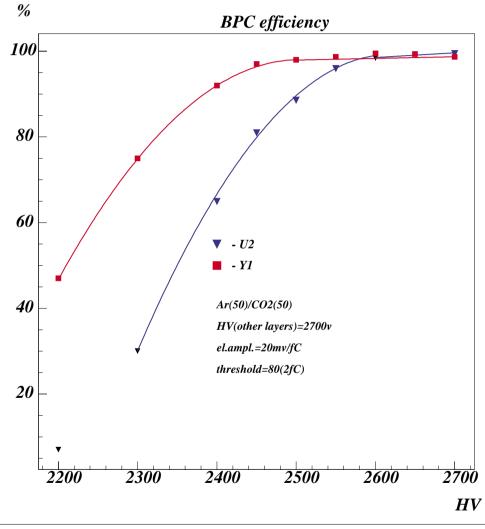


Backward Proportional Chamber BPC



- two modules with 6 planes each
- production of detector in Dubna
- stuck in Dubna customs for ≈ 4 weeks
- finally arrived at DESY 20.3.
- extensive cosmic tests ongoing
- installation into H1: 5.-15.6.

upper half of BPC on cosmic test stand



Summary

H1 well on schedule for restart of HERA

Next Milestones		Requests
 Install BST 	1618.5.	 end of May need access (zZ) for lumi system install second calibration system install temperature monitor for Be-filter
 Install GG 	2129.5.	
 GO/GG coldtest 	30.58.6.	
 Install BPC 	1117.6.	 one of the Forward Tagging Stations FTS at 19 m still has to be in stalled (zZ)
 Install SpaCal 	18.63.7.	
 Cool down H1 coil 	27.66.7.	 FPS fibre detectors will only be installed during Christmas break
• Close H1	6.7.	
 Ramp up H1 coil 	7.7.	for H1 shift planning: The state of the state o
 Cosmic Run 	7.718.7.	– need to know requests from HERA?

H1 Running Strategy for 2001/2002 and beyond

Constraints:

- available e⁻/e⁺ data sets only ≈15 pb⁻¹ with e⁻ taken sofar compared to ≈100pb⁻¹ for e⁺
- polarisation

 running with flat rotator in H1 and maintaining polarisation at HERMES is no longer an option

Conclusions:

- our highest priority is to get as soon as possible into high luminosity mode: ensure that we can obtain > 150 pb⁻¹/year
 => collect ≈ 50 pb⁻¹ e⁺ data
- establish polarisation routinely

=> switch to e

 wish to explore the option of even higher Proton Energies