H1 Status

- H1 has started data taking with all components active.
- The CIP chamber and its trigger are operational.
- One quarter of the silicon vertex detector is dead: internal short at receiver of clock and control signals.
  Repairable in a 6 week shutdown, with break of vacuum. Not requested now.
- VFPS fiber detector installed. Ready for first tests with beam this week.

A first look at backgrounds

- e^+ only fill on 25.9.03 gave the best-ever conditions, albeit at 10 mA.

⇒ SynRad can be steered away successfully.
However, this steering has not been achieved so far under lumi conditions.

- The H1 GO magnet was raised by 0.8 mm on 17.10. to straighten the orbit.

- Benefit from lead shield under backward part of the CJC seen.

- One quick look with p-only showed a small chamber current (10 μA above pedestal in CJC1) at 20 mA p.

⇒ Protons-only are fine.

- ep operation: CJC1 was at 100 μA (half its limit) at $I_e \cdot I_p = 14.5 \cdot 51\,\mathrm{mA}^2$ yesterday evening.

Special requests

- Lumi detector needs position scan for calibration and beam angle scan for acceptance determination, at 27.6 GeV.

- VFPS detector requires special p orbit around NL 220 m for optimal acceptance.

- Separation of SynRad, e-gas, and p-gas during lumi operation requires one isolated e^+ bunch: 12 empty bunches before, 5–8 after, in both beams.

Plans

- Continue luminosity operation. Reach design specific luminosity.
  Increasing beam currents as backgrounds allow.

- High polarization.
  Switch to left-handed e^+ polarization after about $5\,\mathrm{pb}^{-1}$.

- Commission the CIP and Fast Track triggers.

- Commission the VFPS.

- Long, stable data taking period in 2004.
  Exceed the HERA I integrated luminosity.

- A shutdown in Aug 2004 is not desired.

- FPS upgrade: equip 60, 80, and 90 m stations with precision moving system.
  Installation of new pots requires brake of proton vacuum. Takes about 2 weeks.