H1 Status

- H1 is taking data efficiently, albeit without big challenge at low beam currents. DAQ efficiency was 87% over the last 10 days (1 pb^{-1}), 68% with HV on (CJC1,2, CIP).
- Since 13.10. HERA delivered 5.8 pb^{-1}, H1 took 4.7 pb^{-1}, 1.8 pb^{-1} with HV on.
- CJC1 chamber current: 65 μA (limit 180) at $I_e \cdot I_p = 21 \cdot 19\,\mathrm{mA}^2$.
- Flat orbit steering produced the best ever e^+-only conditions: 31 μA at 19.6 mA.
- It took 3 weeks for the pressure around H1 to recover from the flange leak NL 11 m on 4.11.2003. No 12 GeV bake out was done.
  The GO/GG warmup and NEG regeneration on 20.11.03 did not help.
  The pressure at NR8.3 m stays high at 10^{-9} mbar. Leak?
- For the period 8.10. until 13.11. a neutron dose of up to 2 mSv was measured in the hall, and 0.8 mSv in the control room.
- Since 1.12.2003 the experimental hall and rooms in the lower 3 floors are a controlled area: Authorized personnel only, dosimeters required.
  The first ~ 100 dosimeters have been distributed to shiftees and experts.

Special requests

- The luminosity detector needs a beam angle scan for acceptance determination.
- The VFPS at NL220 m will continue commissioning after repair of trigger electronics on the maintenance day 4.12.03.
- Separation of SynRad, e-gas, and p-gas background contributions requires one isolated e^+ bunch: 12 empty bunches before, 8 after, in both beams.

Plans

- Chamber operation should be possible at $I_e \cdot I_p = 30 \cdot 40\,\text{mA}^2$.
  Increase beam currents as backgrounds and safety allow. Stay at 120 bunches.

- The proton current should only be increased when an improved failure detection system is in place.

- Backgrounds must be reduced by a factor of 3 for safe chamber operation at design beam currents.

- Switch to left-handed e^+ after collecting about $5\,\text{pb}^{-1}$ with 40% polarization.

- After a 5 day Christmas break H1 will be active again on 29.12.03.