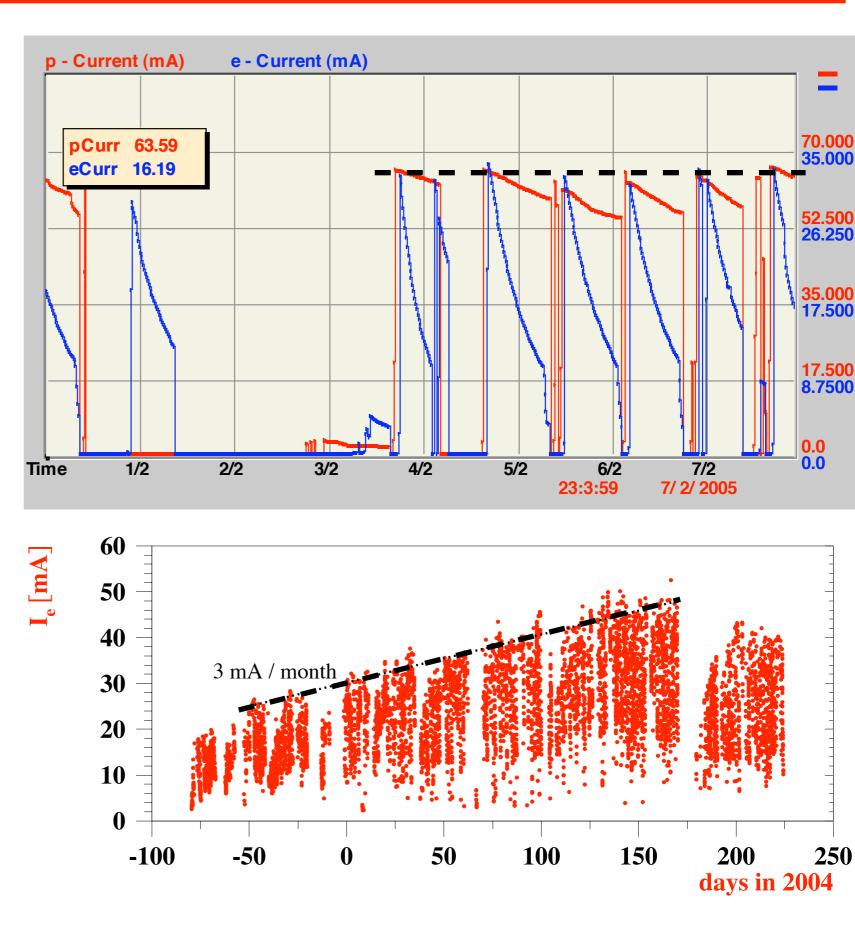
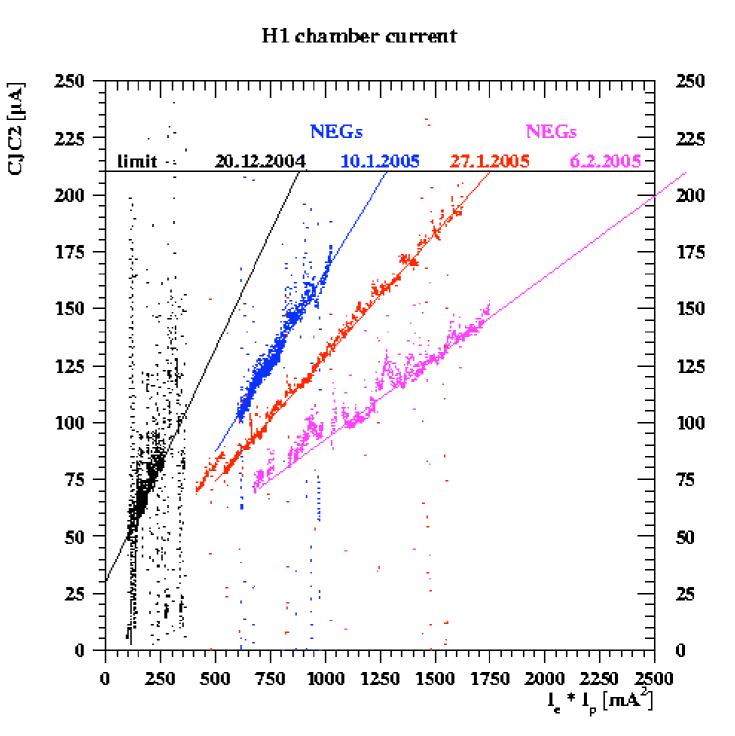
Electron Current 2004/5

- presently Ie ≈ 32 mA at start of the fill
- slope in 2004:
 ~3mA/month
- => conservatively assume until beginning of March
 - Ie ≈ 36 mA (180 bunches)
 - Ie = 33 mA (120 bunches)
 due to bunch current limit



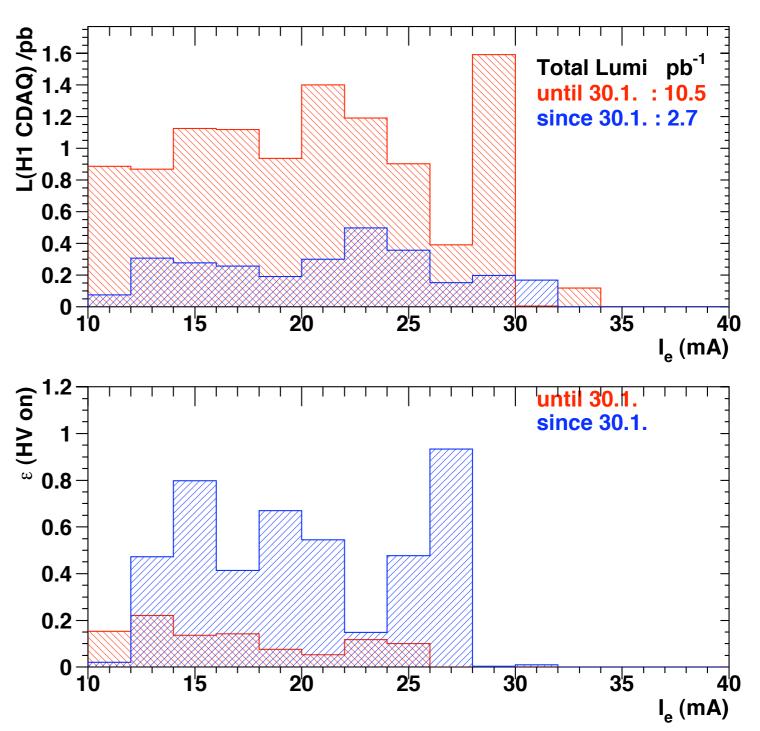
Expectations for H1

- background still factor of 2 above limit for operation at 105mA × 50mA => H1 can either run at:
 - $105 \times 25 \text{ mA}^2$ (180 bunches)
 - i.e. H1 ON for 69% of fill
 - $70 \times 37.5 \text{ mA}^2$ (120 bunches)
 - i.e. H1 ON for 100% of fill
- next factor ≈1.5 expected for warm up beginning of March
 - goto 180 bunches
- final improvement factor
 beginning of April will bring
 H1 fully back on track



DP 07/07/2005 (2.21.37

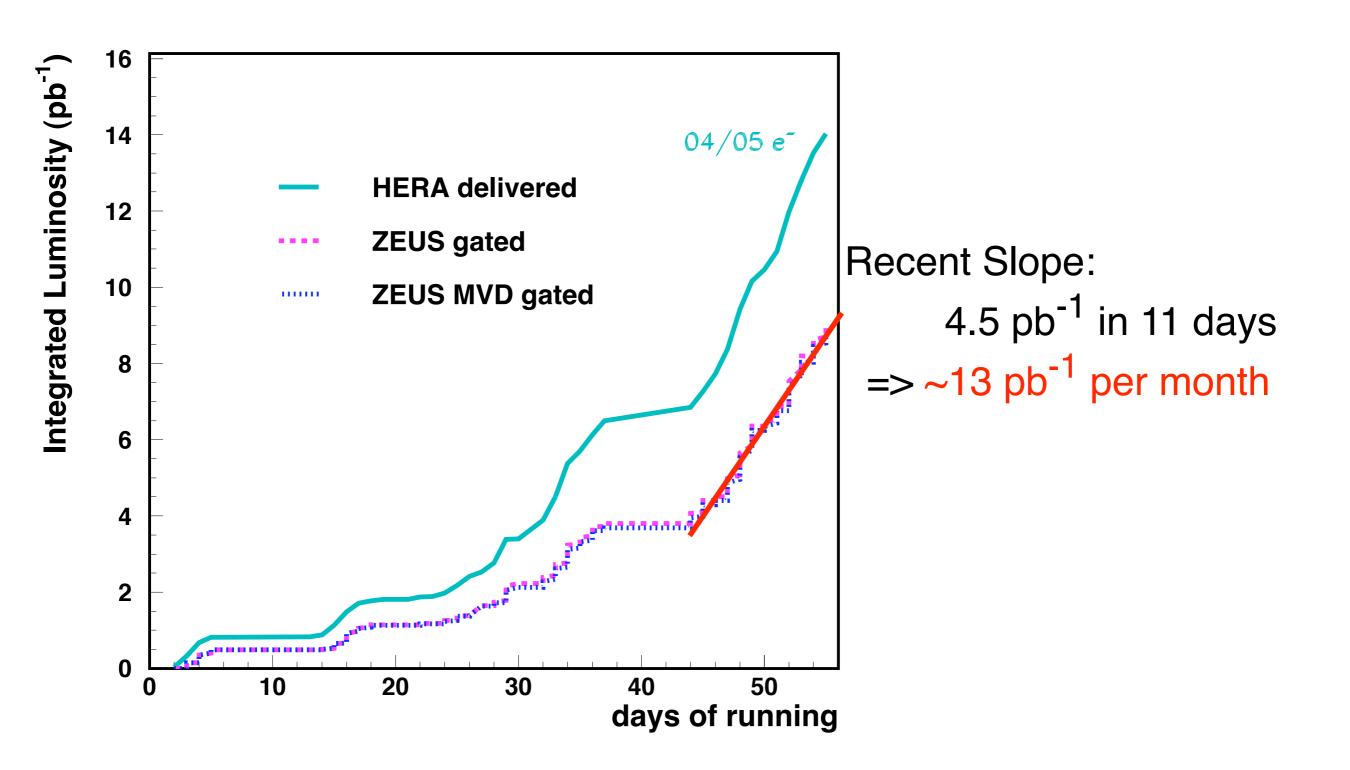
H1 Conditions



HV efficiency in 2005

 apart form spikes H1 can switch on almost immediately at present beam currents

ZEUS Luminosity for Physics



Expected Luminosity for February

- goal: optimise integrated e-p luminosity for spring conferences
- 180 bunches
 - marginal improvement expected for ZEUS
 - significant loss for H1
 - overall loss for ZEUS + H1 amounts to 12%
- 120 bunches
 - more steady operation
 - can concentrate on polarisation optimisation
 - explore option with extra electron pilot bunches for faster vacuum conditioning

# of bunches	120	180	Ratio
ZEUS	13,1	13,6	1,04
H1	13,1	9,4	0,72
Sum	26,2	23,0	0,88