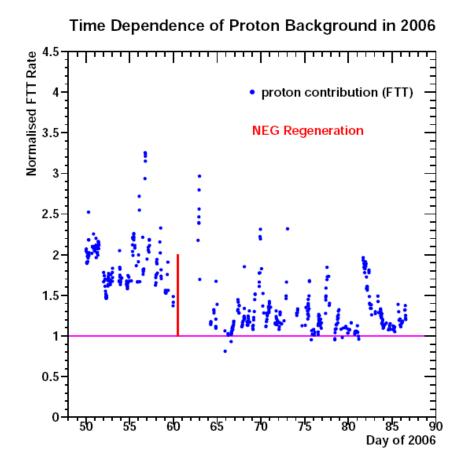
H1 Status

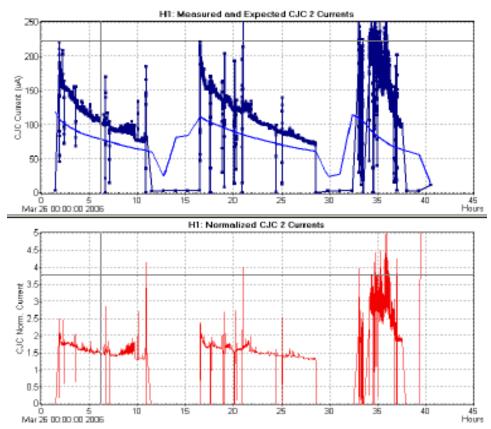


G. Eckerlin HERA coordination meeting March 28th 2006

- Background
- Data
- Plans

Background

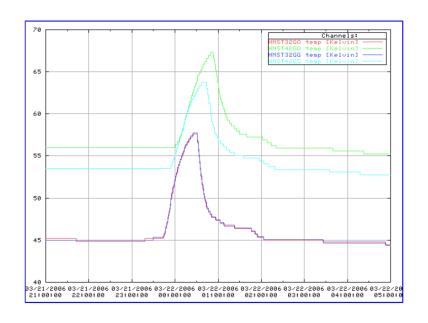


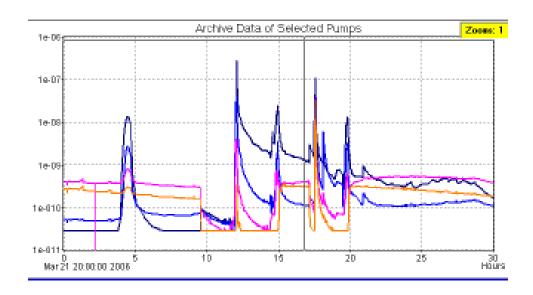


little improvement with time except for clear steps after NEG regeneration next step should reach Oct/Nov 05 cond.

in general smooth HV operation
still some trips (up to 2/3 due to 'short' spikes)
some fills are particularly bad though

Vacuum incident

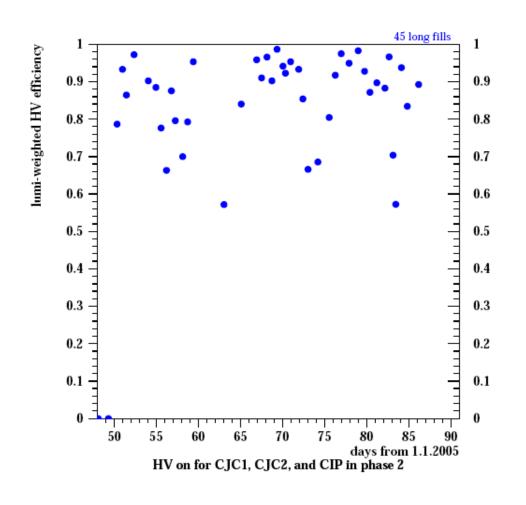




problem with cryogenics on March 22nd warming up GO/GG shield by 10 deg evaporating gas into H1 beam pipe

after subsequent beam loss increase of vacuum around H1 by 10² firing TSPs needed twice to recover

HV efficiency



HV efficiency (after initial HV ramp up) in most cases above 80 %

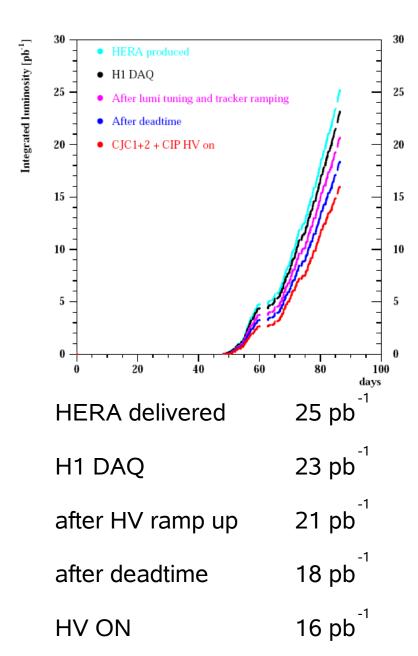
reaching 98 % in good fills

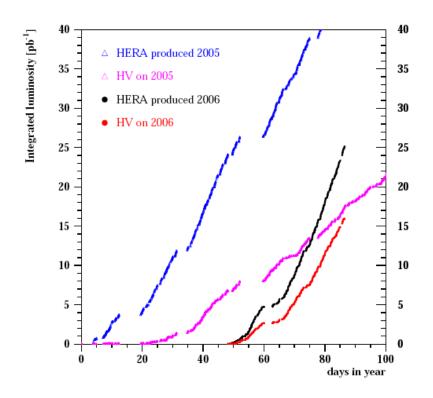
last fills below 80 % due to bad vacuum after March 22nd

loss due to HV ramp up and lumi tuning is not shown (10 – 15 %)

for good fills HV ramp up is ~20 nb-1 loss

Data taken

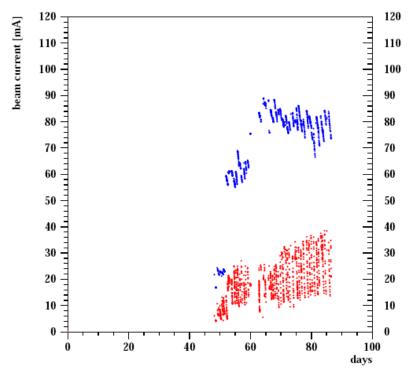




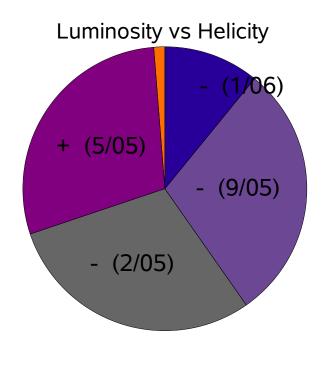
comparing 2005 with 2006
similar slope, less breaks
much better backgrounds resulting in
much higher HV efficiency

G. Eckerlin, HERA coordination meeting, March 28th 2006

Plans



NEG regeneration next maintenance day no le or lp limit due to chamber operation 180 bunches ok



helicity: + = 38.6pb⁻¹ - = 89.9pb⁻¹
expect ~ 20pb⁻¹/ month
helicity flip early May