

# Report from H1

## Statistics for Lumi Fills 5.4. – 11.4.2005

- HERA delivered **4.97 pb<sup>-1</sup>**
- H1 Run **4.75 pb-1**
- H1 Active **4.33 pb-1** (9% deadtime)

During the weekend in total 3 lumi fills:

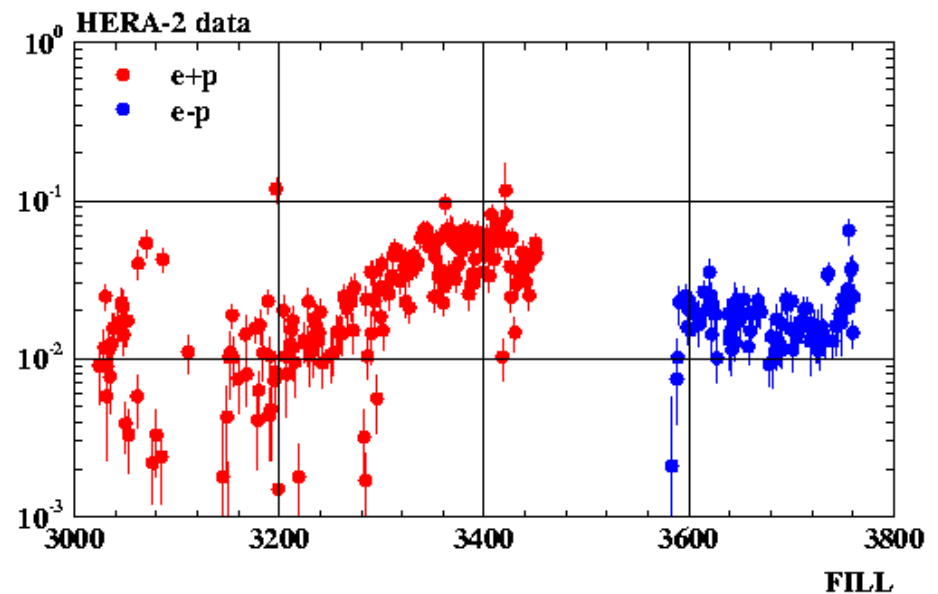
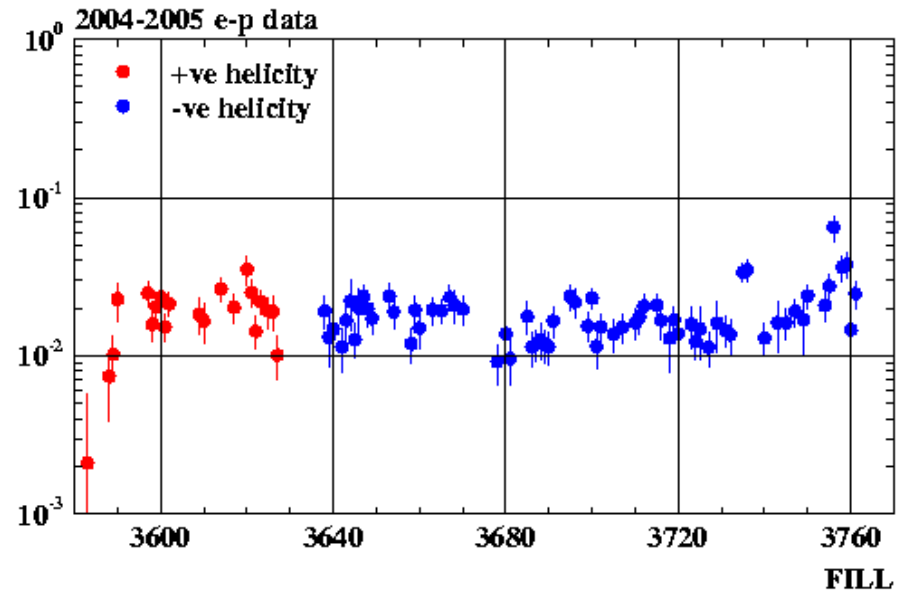
HERA delivered **2.23 pb<sup>-1</sup>** and H1 recorded **1.20 pb<sup>-1</sup>**  
with HV OK (= **54 % HV efficiency**).

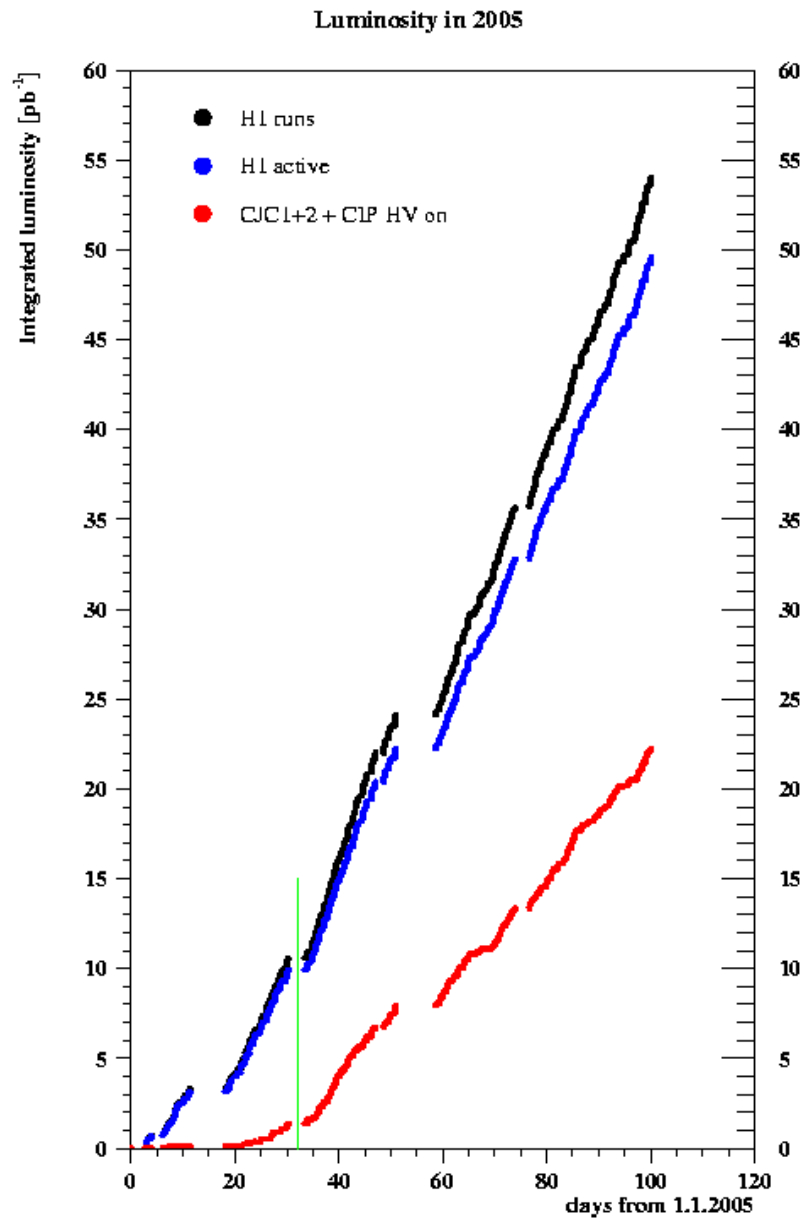
## Satellite corrections for e-p<sub>sat</sub> data put into database

Average satellite corrections for different helicity samples (for  $|z_{vtx}| < 35$  cm) :

| helicity | $dL_{sat}$               |
|----------|--------------------------|
| $+v_e$   | $1.67 \pm 0.16 \pm 0.33$ |
| $-v_e$   | $2.05 \pm 0.09 \pm 0.41$ |

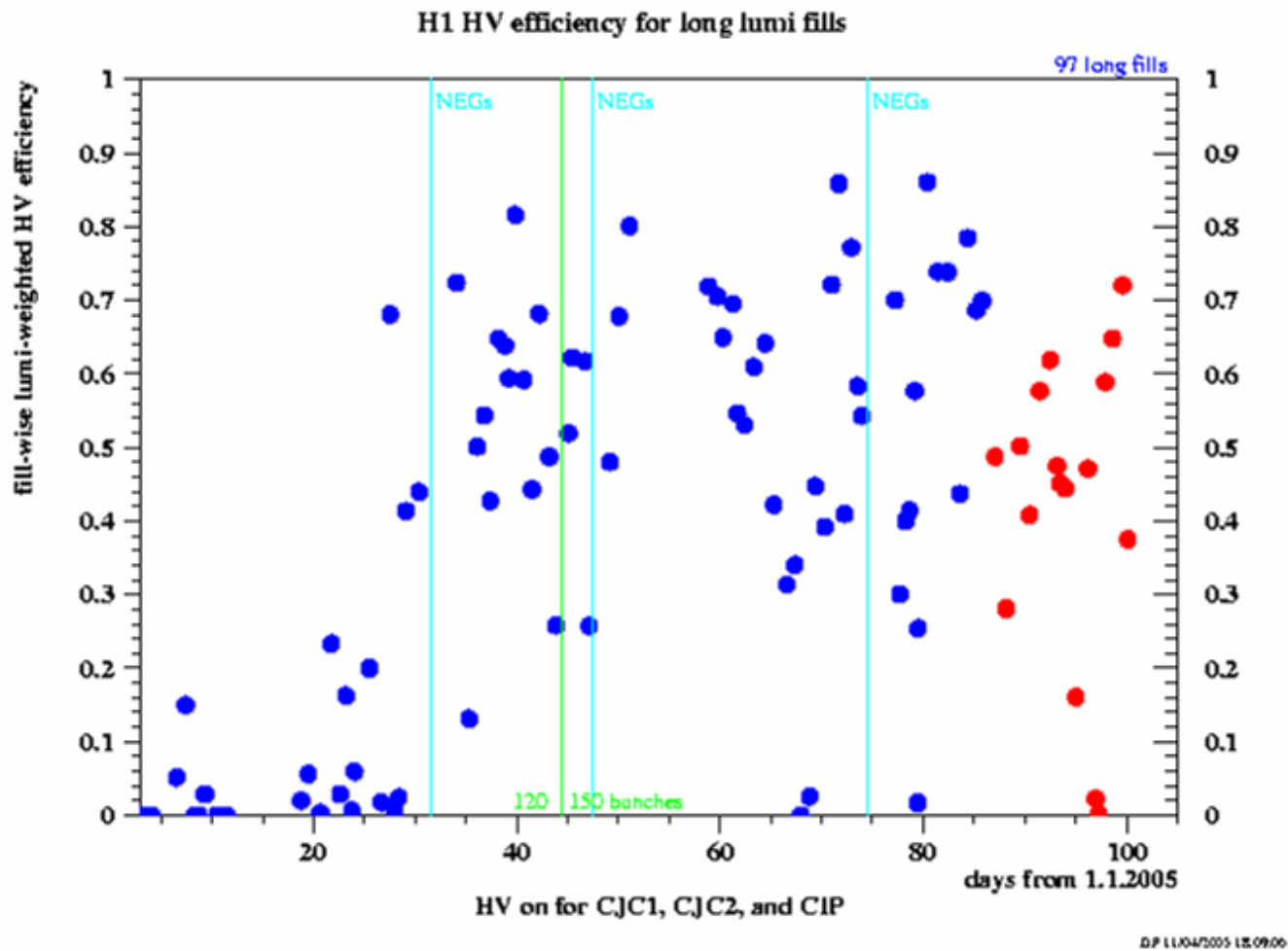
(1-st / 2-nd error = correlated / uncorrelated systematics)





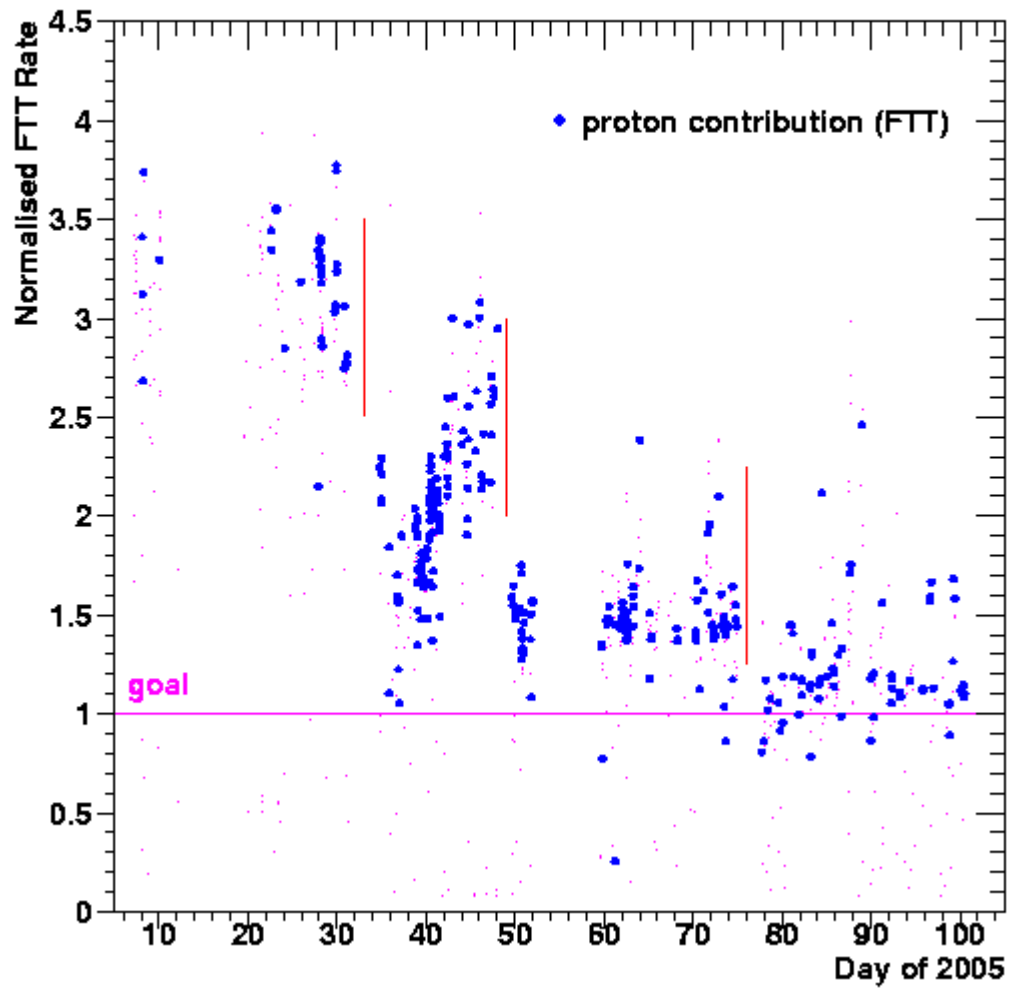
N.B.: satellite corrections  
now included

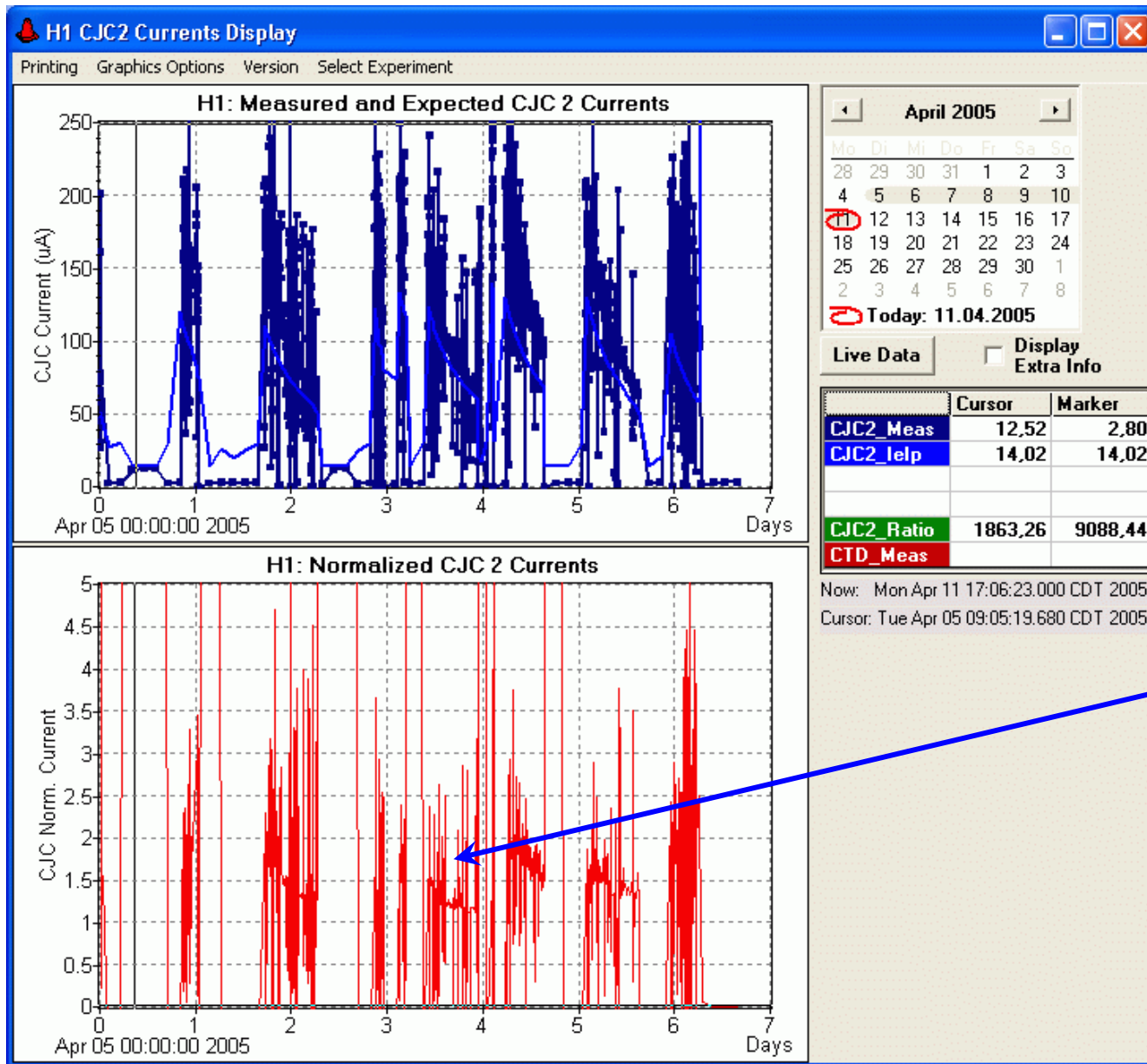
DP LU047005 10.9.12



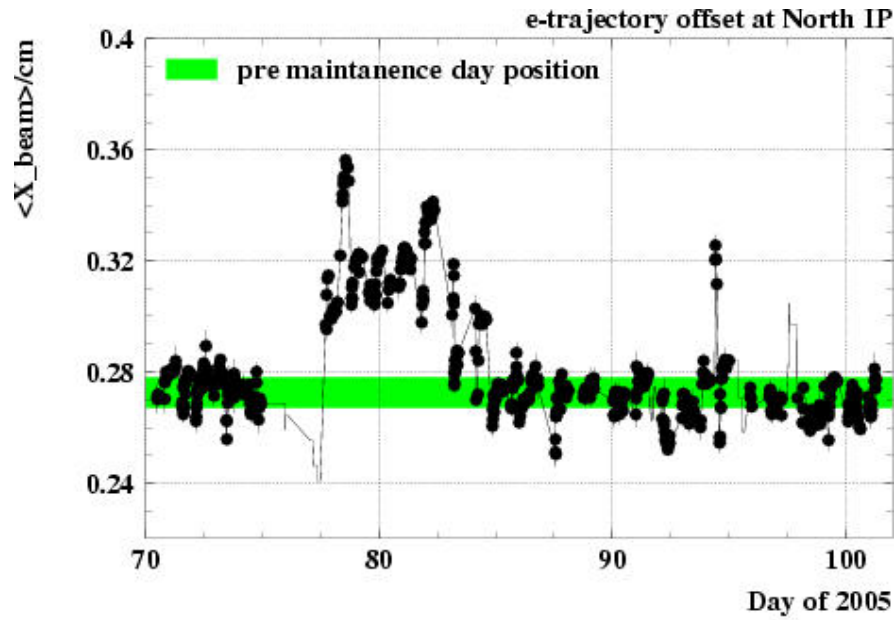
Last 17 fills (in red) from 28.3.2005: lower efficiency with more BU problems

### Time Dependence of Proton Background in 2005

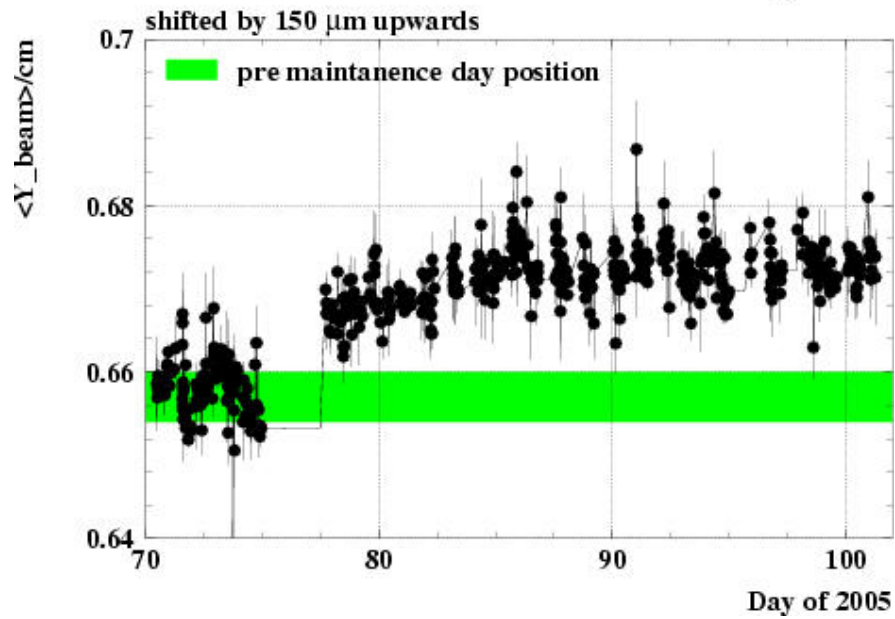




Best normalized  
CJC2 current -  
close to  
expectations  
Friday – 8.4.2005



Stable during last  
~15 days



## SHORT LUMI RUN SUMMARY (H1 lumi group)

| Fill# | Start L Run   | Ip(mA)  | Lmax(mkb-1s-1)  | HERA(nb-1)  | H1Dtata(nb-1) |
|-------|---------------|---------|-----------------|-------------|---------------|
|       | End L Run     | Ie-(mA) | spLmax(L/mA**2) | H1Run(nb-1) | HV_ON(nb-1)   |
| 3772  | 1:49:34 (9/4) | 91.69   | <b>48.79</b>    | 54.76       | 49.41         |
|       | 2:40:20 (9/4) | 42.57   | 2.096           | 54.76       | 0.0           |

Unfortunately e<sup>-</sup> beam lost due to WR transmitter failure shortly after luminosity run was declared.

**New record instantaneous luminosity :**  
**congratulations to HERA crew !**