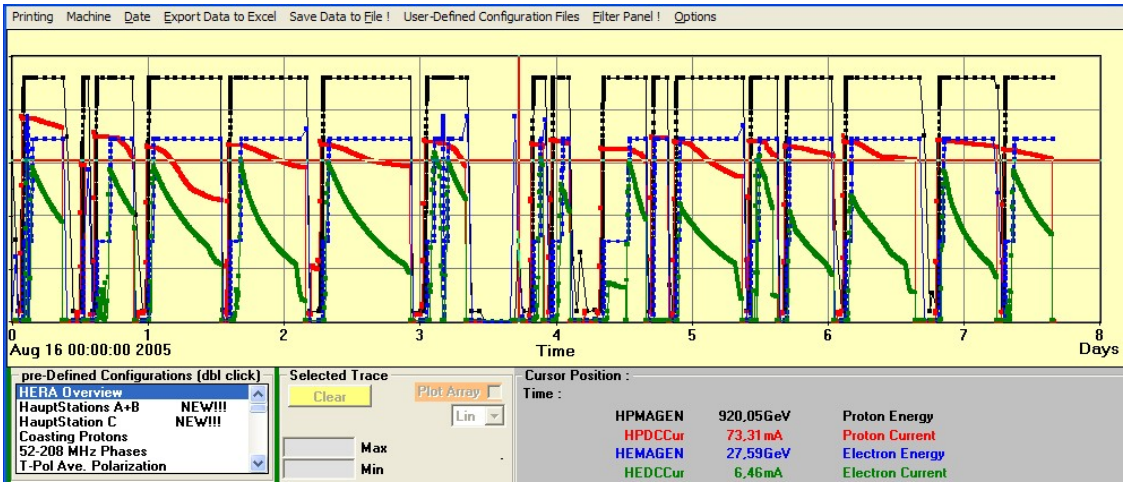
# HERA Overview: Week 33




**HERA delivered 13 Luminosity runs during the past week.**

Typical proton beam currents: Ip = 78 … 92 mA

Electron beam currents: Ie = 27 … 38 mA

in 150 Bunches.

The major problem during the week: Low proton beam lifetime during collisions.

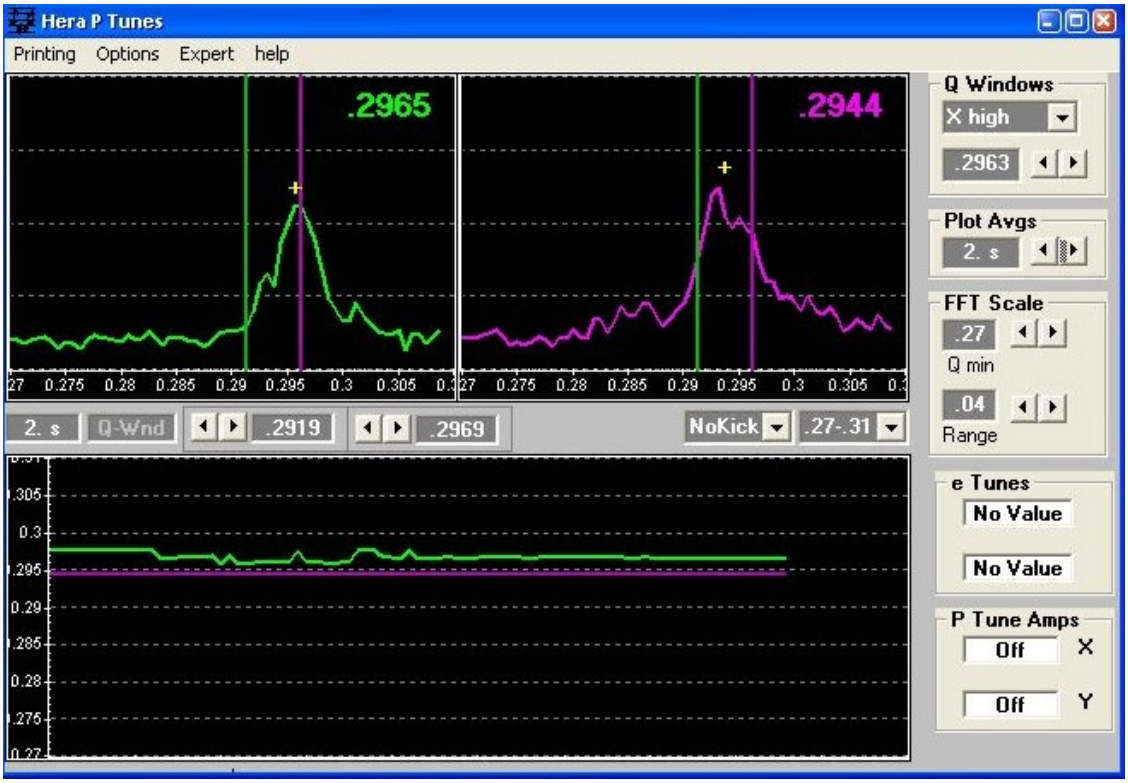
The problem has been studied parasitically during luminosity operation.

**Bunch currents of protons & electrons after a long luminosity run:**

If properly tuned, the proton pilot bunches and the colliding bunches have approximately the same lifetime.

Indicating that the proton beam is – as far as we can judge – not stronger limited by beam beam forces than usual.

**A new working point** in the proton ring has been established on Monday morning (22.Aug. 2005) that leads to better proton beam lifetime and lower background rates. The machine is operated – with good experience until now using these new settings.




**Lifetime of the protons during collision** when the new working point had been established: With a stored beam current of 75mA the lifetime grows from 20h to 250 h.