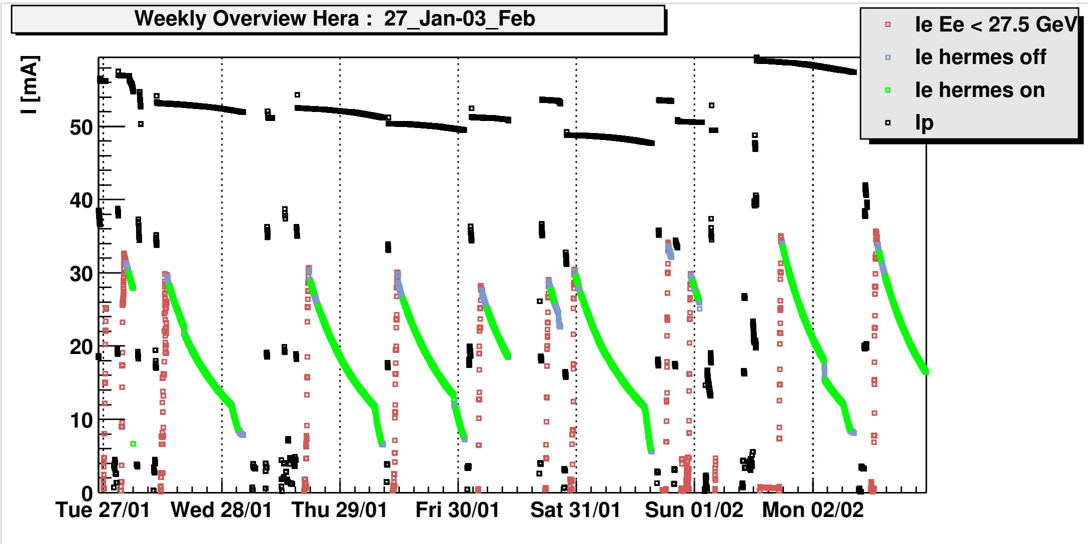
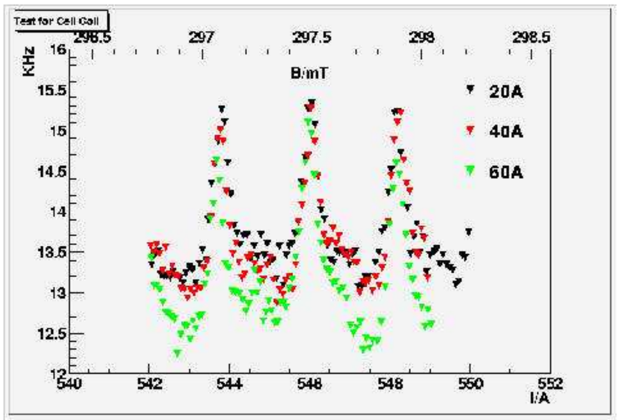
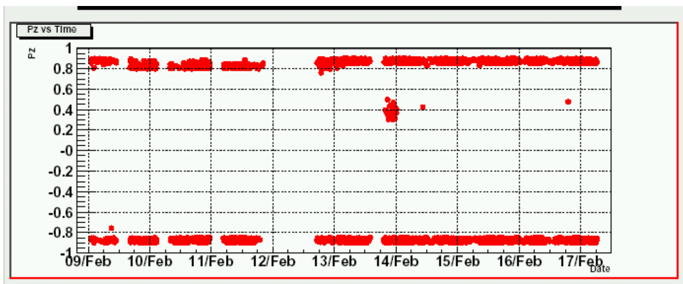
• High efficiency in the Data Taking (green=spectrometer ON / data taking)



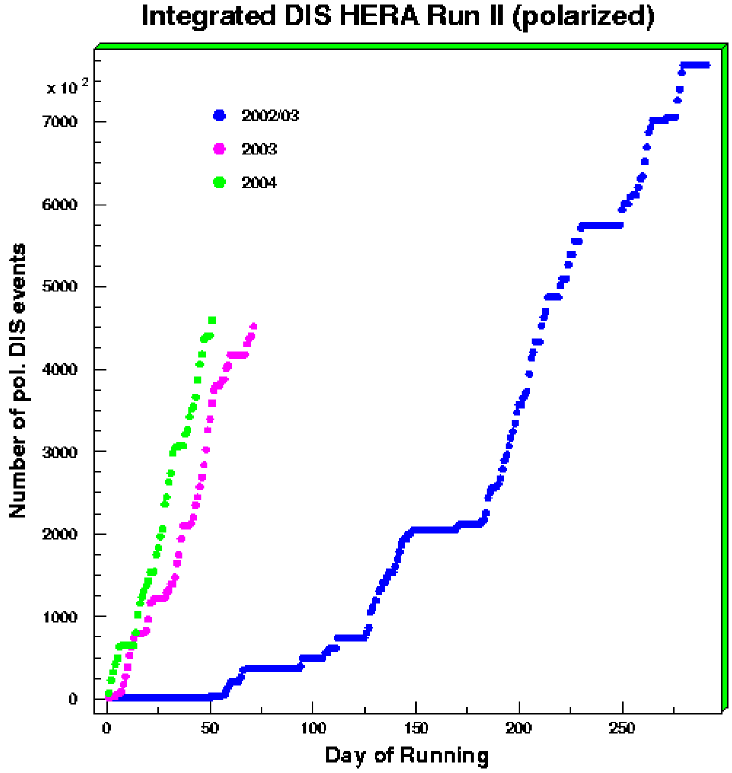
The spectrometer is fully operative !

• Target resonance studies (fine tuning of target polarization) allowed by ramping up the target magnet before "lumi run" declaration.

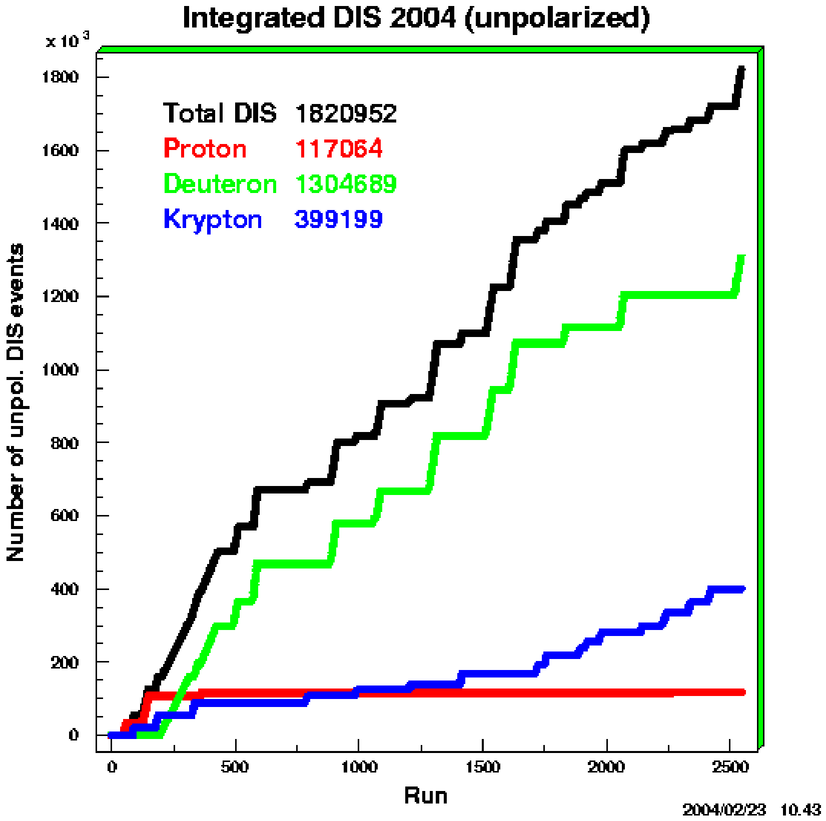




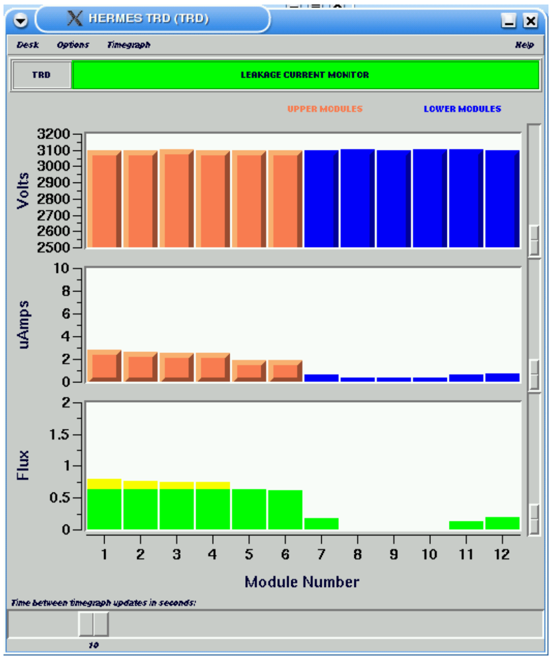
- Accumulated transverse polarized DIS on H (∼ 1.9 Ml):



- Accumulated unpolarized DIS by End-of-Fill runs:



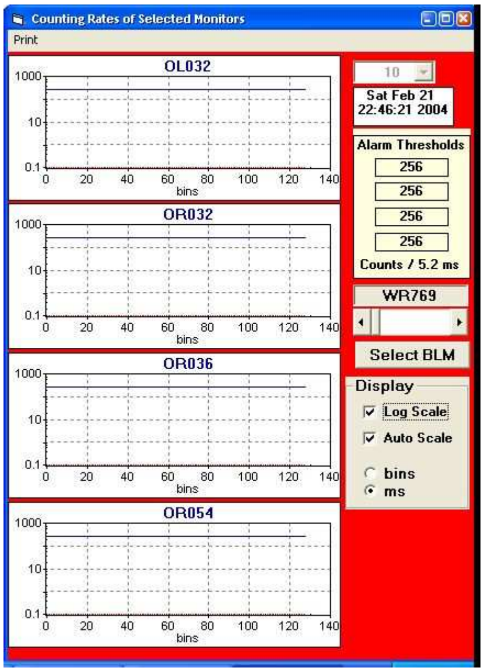
• The large asymmetric synchrotron radiation observed until few week ago, now is strongly suppressed:



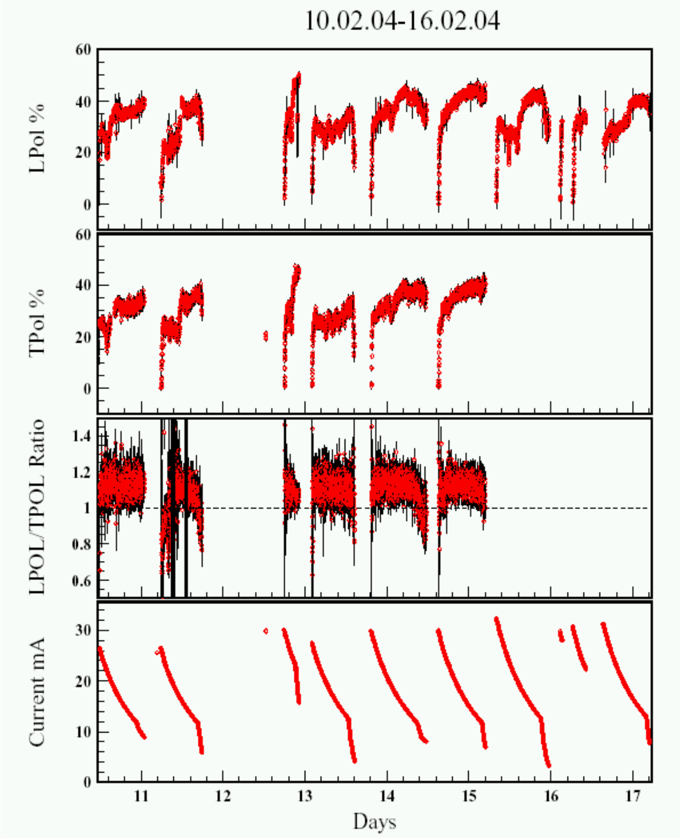
• A small misalignment of the beam line has been found. It will be cured during the next access day.

• PS3+PS4 separation valves:

During the proton acceleration, around 550 GeV 2 over 5 target separation vales get close. It seems not connected to a partial beam lost.



Polarization



Only in few cases $> 40\%$. A big effort is expected to improve it.

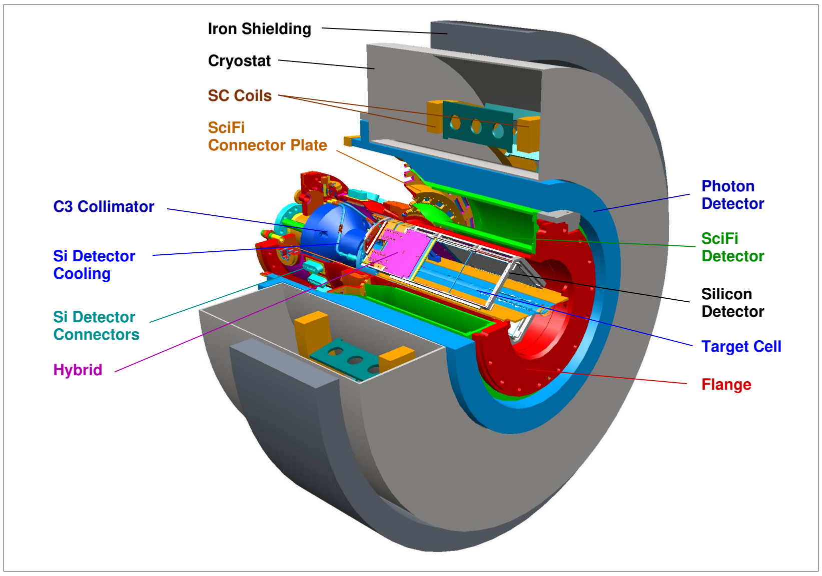
• Don't forget to continue the tuning also during the End-of-Fill runs.

Spin rotator flip: no strong objection, but ...

- it must have no impact on the stability of HERA;
- it doesn't have to compromise the polarization tuning improvement.

Activities on the next summer shutdown:

The Recoil Detector will ready for the next summer. Installation time ranges in 4-6 weeks.



Ready to install in August, but the choice is based on:

- How long do we run ?

  HERMES lost 2 yr of the physics program.

  We need 7 Mil of DIS transversely polarized.

  We need reasonable beam polarization.

- e^+/e^- flip during Recoil data taking.

The transverse physics program and the recoil one are not decoupled.

i.e.: To access GPDs and calculate the *Ji sum rule* we need:

- DVCS events by transverse asymmetries;

- DVCS + Exclusive hadron production with Recoil.

The perfect solution optimized on physics output

- Run until Summer 2007;
- Recoil installation in Summer 2005 (despite ready for installation this Summer);
- Flip from e^+ to e^- during the Summer shutdown 2004;
- Flip back from e^- to e^+ in Fall 2006.