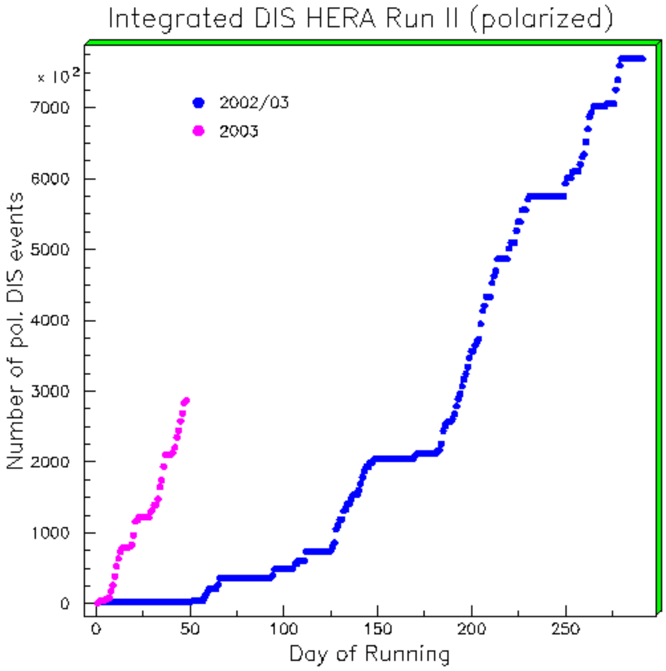
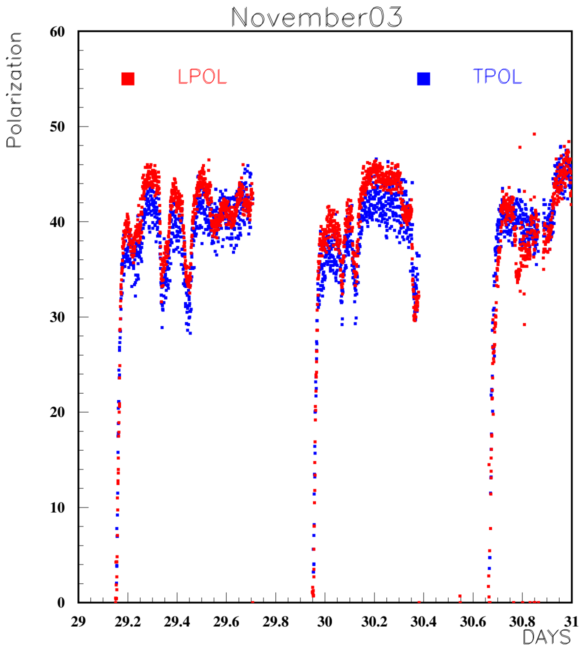
• Accumulated transverse polarized DIS on H:



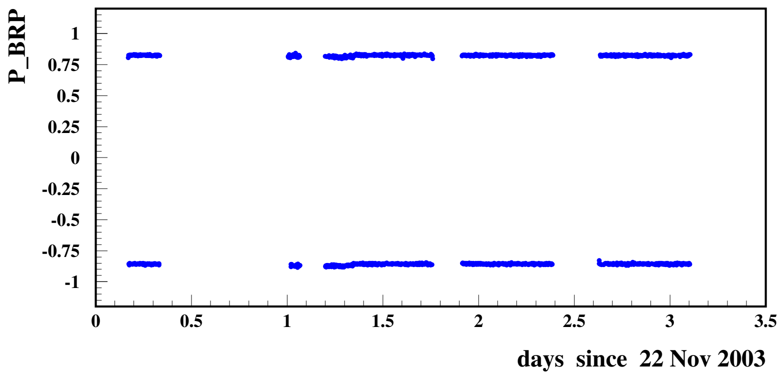
• Promising polarization after latest HERA tuning efforts:



Regular good polarized fills, maximum polarization reached ~48%

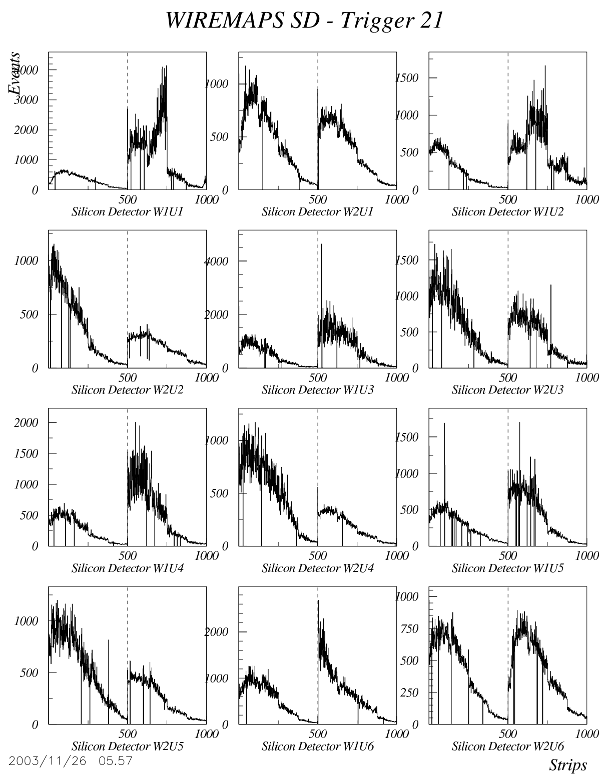
The spectrometer is fully operative:

• Transverse target polarization stable at 85%



• New procedure to ramp up the target magnet: after e^+-beam acceleration, before/during tuning. Studies for beam induced depolarization.

• Silicon detector ($\Lambda - wheel$) included in DAQ, good tracking.



• New trigger for DIS and photoproduction dedicated to pentaquark signature (3 tracks).

• Good background conditions, Top>Bottom.

• Longitudinal Polarimeter, systematic studies continue:

△ Laser power polarization dependence ⇒ Lost position memory in the attenuation controller. Fixed (?)

△ Sandwich calorimeter will be used next ⇔ crystal calorimeter linearity.

• Christmas shutdown:

Shifts will be over at 24:00 on 22nd of December,

start again at 8:00 on 2nd of January.

hermes

In 2000 $\sim$13 Mio unpolarized DIS on nuclear targets have been collected: H:7.8, D:1.8, Kr:0.5, ^{4}He:1.4, Ne:4.3

Physics accessible by these data:

- Hadron formation and transport in cold nuclear matter;
- Primakov Effect: pion form factor;
- Diffractive ρ production;
- Λ production: see quark polarization.
- Quark Fragmentation Functions
- ....

In 2000 regular "end of fill" runs with High Density target gas starting at 13 mA;

Light targets: maximum density restricted by the rates in the spectrometer;

Heavy targets: maximum density restricted by the beam life time (>1h).

Proposal:

Tune and test the HD procedure for 2 weeks before the Christmas shutdown;

During HERA Meeting request for starting regular End of Fill runs;

At the moment, proposed starting current 10 mA (?).