HERA-B Report

Two short periods of data taking up to now:

Dec 2001: ~ 20 hrs.
Apr 2002: ~ 6 hrs. (very high background)

Target:

All 8 wires operational. Automatic Multi-wire steering even working with very bad beam conditions. Ready to take calibration data.

Vertex detector:

Ready to go.

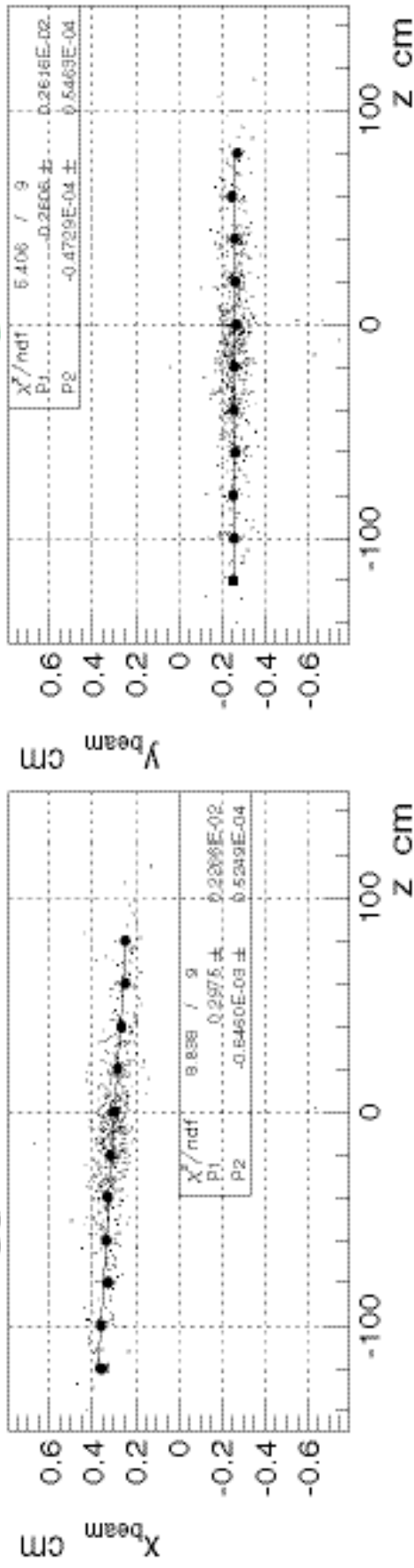Took beam-gas data to align VDS-vessel with respect to proton axis. ➜

Inner tracker:

Fully installed and ready for HV training. Will need 400 hrs. of target operation.
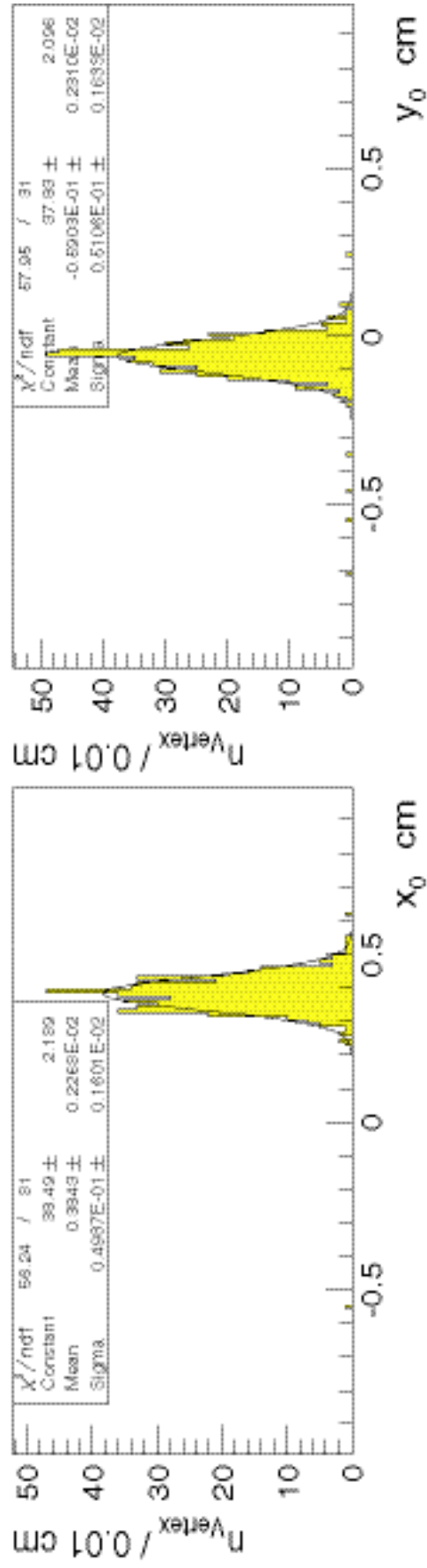
Outer tracker:

Dec. data very helpful to debug chambers (swapped cables, cal. constants, alignment algo´s,…)

The interaction-trigger (software) allows to reconstruct beam-gas events:

One can reconstruct the p-beam position and inclination but also its size:

More beam data needed to check and continue.

RICH:

Ready to go.

Filled with C_4F_{10} as radiator gas.

Calorimeter:

Noise level much reduced (design values). Occupancy de-creased (compare to 2000) due to thinner beam-pipe and re-moval of magnet chambers. Calibration procedure started.

Muon:

Dec. data helpful to detect and correct bad channels. Pad system improved considerably. Code for fast meas. of efficiency developed. Waiting for beam.

Trigger:

• All trigger hardware in place. Optical links require permanent effort (3% unstable links).

• Efficiency of FLT algorithms improved. Detailed comparison of 2000 data with MC finished.

• SLT farm PCs upgraded to 1.4 GHz processors