ZEUS Status HERA Coordination Meeting Oct. 5, 2004 W. Zeuner

- Detector is closed, interlock is set
- Flushing gas chambers
- Central DAQ is being setup
- Start cool down of solenoid tomorrow
- Aim for cosmics running by mid of next week

ZEUS Status

Major work done

- Electronics repair/maintenance at the calorimeter and its trigger
- Improvements on the trigger from the BAC
- Maintenance on the Si-diodes of the radiation monitor
- Recovered a few channels of the Si-MVD
- Repair on the B/Rmuon chambers
- Improved shielding on the Lumi-spectrometer
- Repair on electronics of Lumi-calorimeter
- New control system for the feedbox of the solenoid
- Exchanged two undercarriages of the iron yoke
- Repaired electronics of the HES
- Same hardware changes in the CDAQ

\rightarrow All this work was successfully completed

ZEUS Status

Remaining problems

The instabilities of the solenoid have been understood better

The forward tracker (STT) causes break downs of the insulation vacuum when it is switched on and off. The cooling of the STT is not sufficient There is too much heat dissipated close to the cryostat.

These vacuum break downs can only be seen when the magnet is warm. When the magnet is cold, the incoming gas is absorbed at the cold surfaces. In this case only the temperature inside the cryostat changes.

Up to now the vacuum always recovered – currently the magnet is in good shape and can be cooled down. There is no indication that the solenoid cannot be operated stably.

Different solutions are currently under investigation

ZEUS Status

Remaining problems

- Water leaks in the detector cooling of the FHES have been detected
- No danger for the detector because it is an under-pressure cooling
- Repair ongoing one module is currently missing
- \rightarrow Nuisance not a catastrophe

Summary – We are (almost) ready for data taking