The Status of hermes

After the short Christmas break, data taking restarted on 29th of December:

-Spectrometer Fully Operative

On 5th of January basic maintenance work has been performed, in addition:

-target

-LPol Calorimeter reinstalled

- Position and movements checked
- Laser light polarization checked

Pasquale Di Nezza, HERA Coordination Meeting, January 2005

Target

In the last weeks several problems has influenced the behavior of the polarized target:

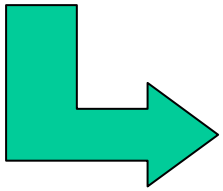
-Leak along the oxygen line;

-Possible leak in an O-ring in the cooling water line;

-Broken RF generator for ABS.

Everything has been fixed!

Quartz glass tube is more reliable than the pirex one.



It will be replaced each access day (monthly).

End of fill run (@ 10 mA) using nuclear target (Xenon) is very successful.

Actual Conditions

Data taking proceeds in a smooth way:

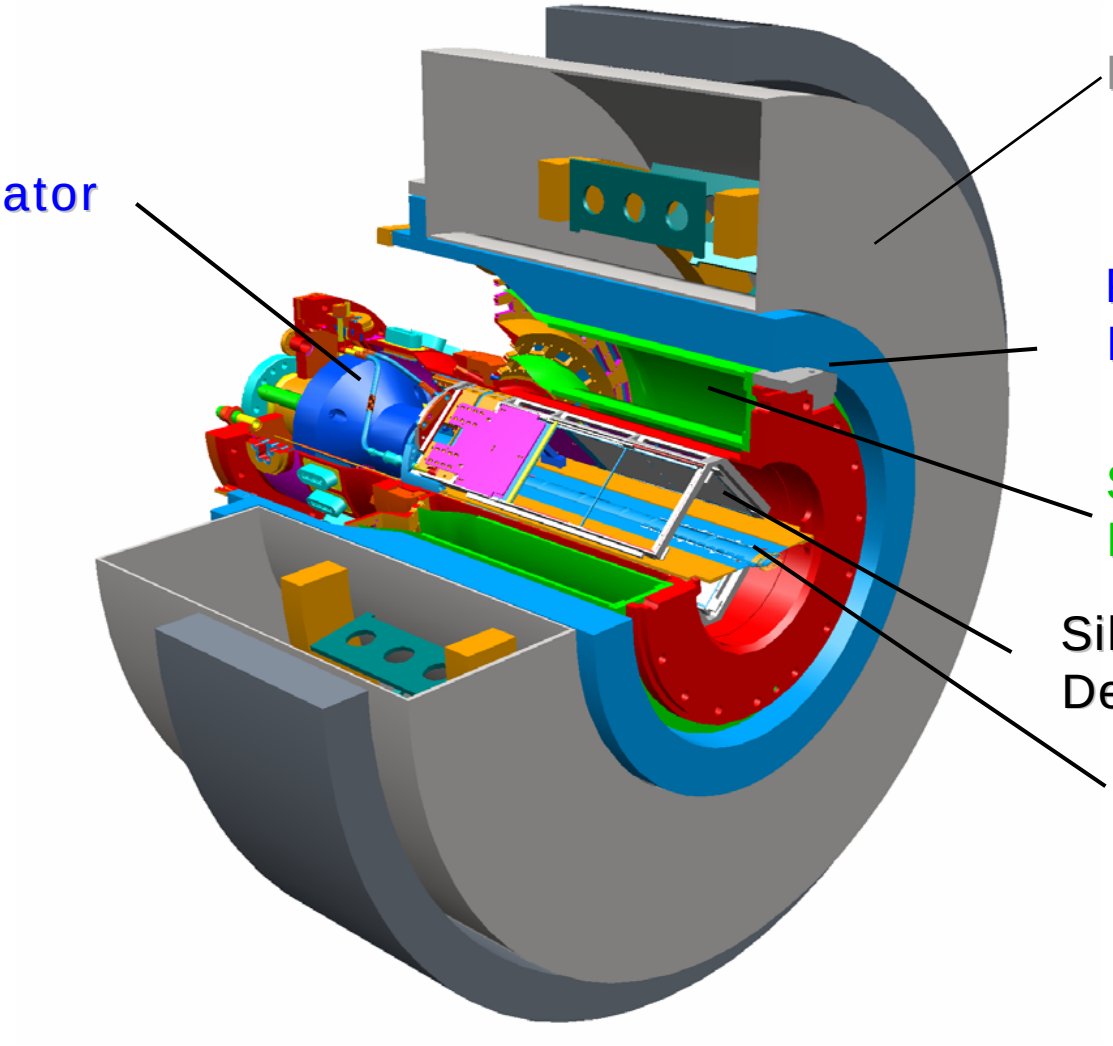
- -Perfect background conditions, no problem with e^-
- -Bad background (spikes up to 2 MHz) "only" during proton injection

Requests

-High electron current → 180 bunches

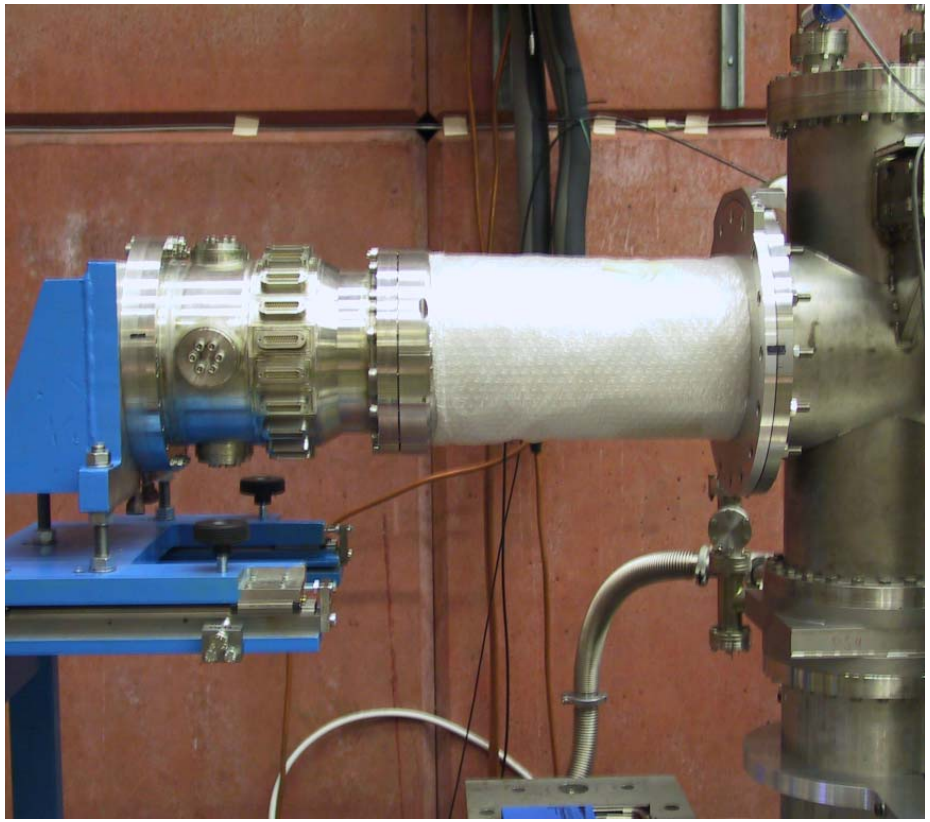
-More efforts (i.e. dedicated studies) on polarization: now only up to ~25%

Hermes Recoil Detector

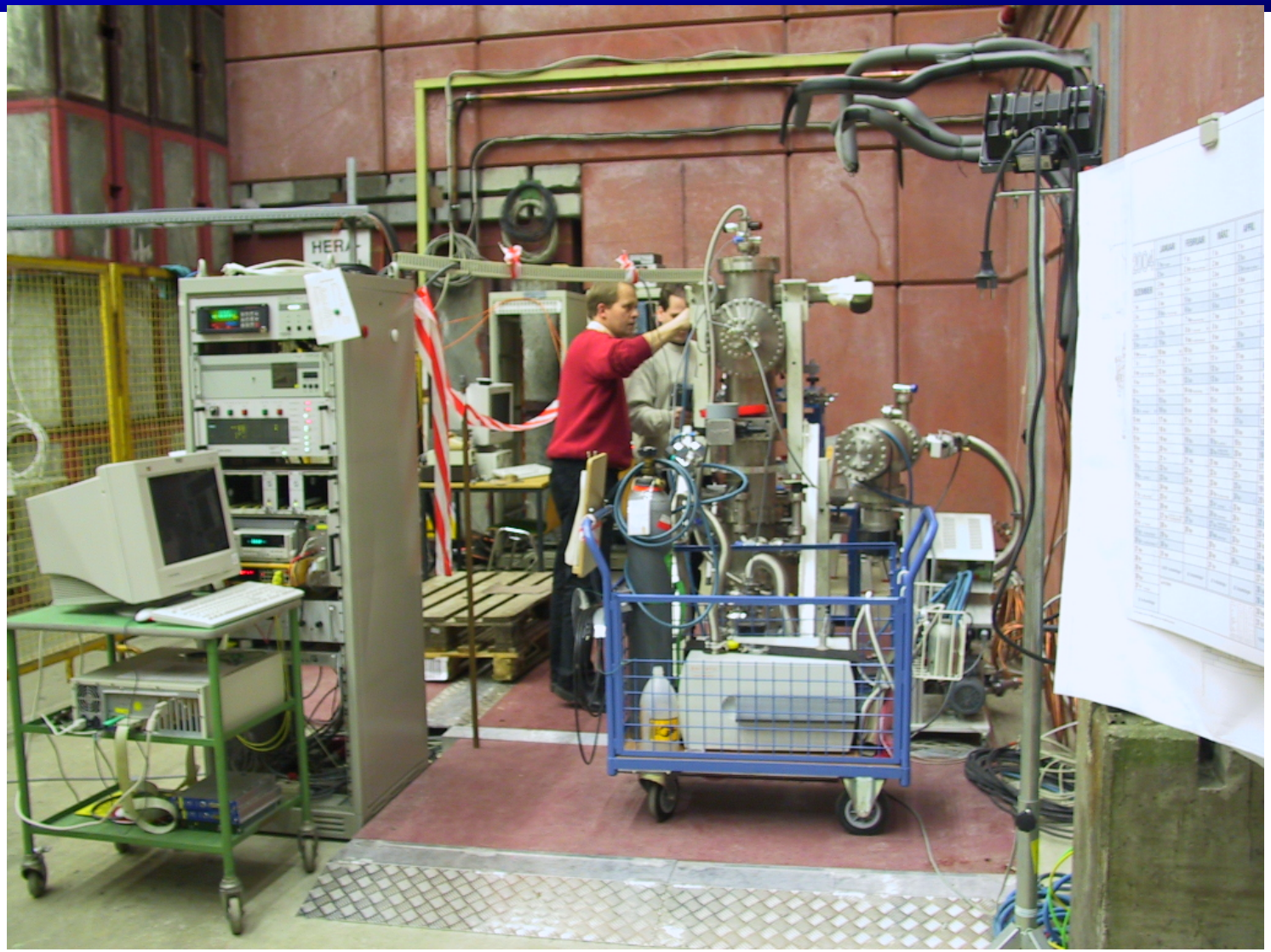


Preparation for Test Installation

- ☑ Test area including all necessary infrastructure was prepared for recoil installation
- ☑ Scattering chamber and service chamber connected to test pump stand
- ☑ Center of scattering chamber was aligned to imaginary beam by survey group



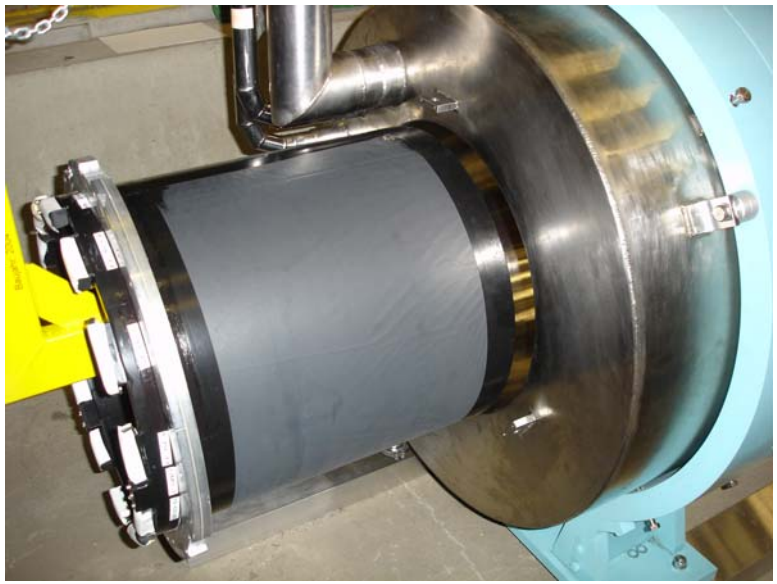
Recoil Test Experiment Area



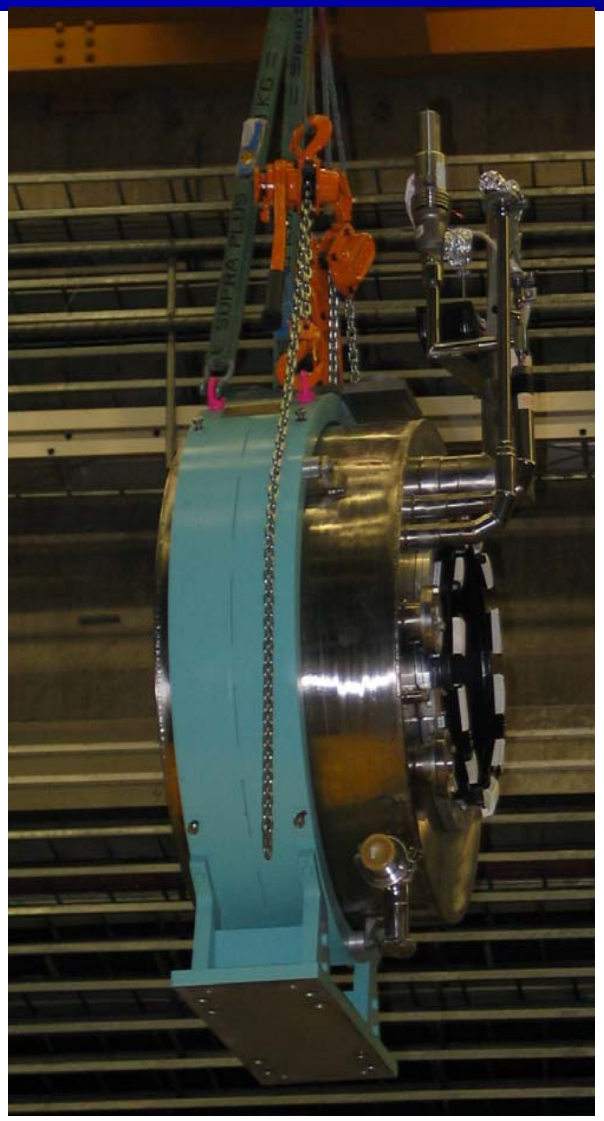
Volker Prahl and Andre Gade

Status Test Installation

- ☑ Magnet mapping completed
- ☑ Photon Detector was installed inside the superconducting magnet
- ☑ Center of magnetic field was aligned to the center of the scattering chamber
- ☑ Platform which hosts the SciFi Photon Detector PMTs was installed
- ☑ Ready for arrival of subdetectors
- ☑ All subdetectors have been calibrated individually in testbeams



Magnet installation



Milestones for the next two months

- Practice installation of silicon detector with dummy detectors
- Identify possible problems in cable support etc.
- 17th of January: start of SciFi and Silicon installation

- End February: start common readout of detector and take cosmic data
- 1st of April: ready for installation if HERA emergency would occur.

  Preferred shutdown period remains middle of August (to be decided not later than June).

Change in the management

P.D.N.: steps out as Run Coordinator, continues as Deputy Spokesman;

Matthias Hartig: new Run Coordinator.