Hermes Status

J Stewart May 14

Detector:

- **Detector Back in beam position**
- **Work on detector finished next week**
- **Month of June Reserved for detector testing**

Open Questions:

- Beam Dump Trigger Circuit

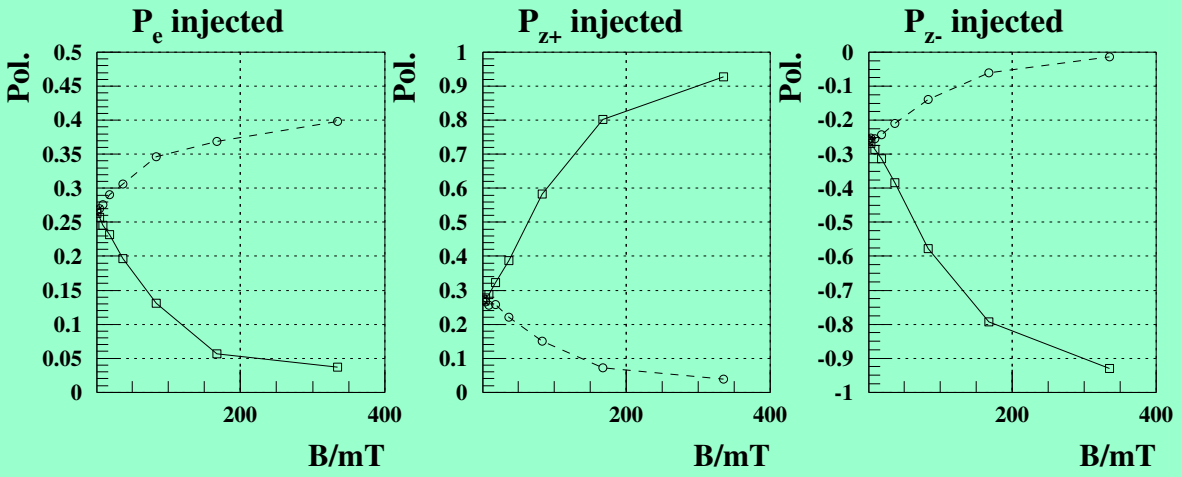
Hermes Status

Target:

- **Transverse Target Magnet**
- **Target Breit-Rabi Polarimeter**
  - Major components tested
  - Tuning not finished
  - No calibration performed
  - Much work is needed
  - June set aside for target work
- **Atomic Beam Source**
  - Ready for data taking
  - Additional HFT being prepared (used for calibration)

Transverse Magnet

- Transverse magnet assembled in hall2
- Power and cooling tests OK
- Central field B=0.295 T @ I=500A OK
  - (Design Goal B=0.30-0.34T)
- Now measuring and shimming
- Install in 2 weeks



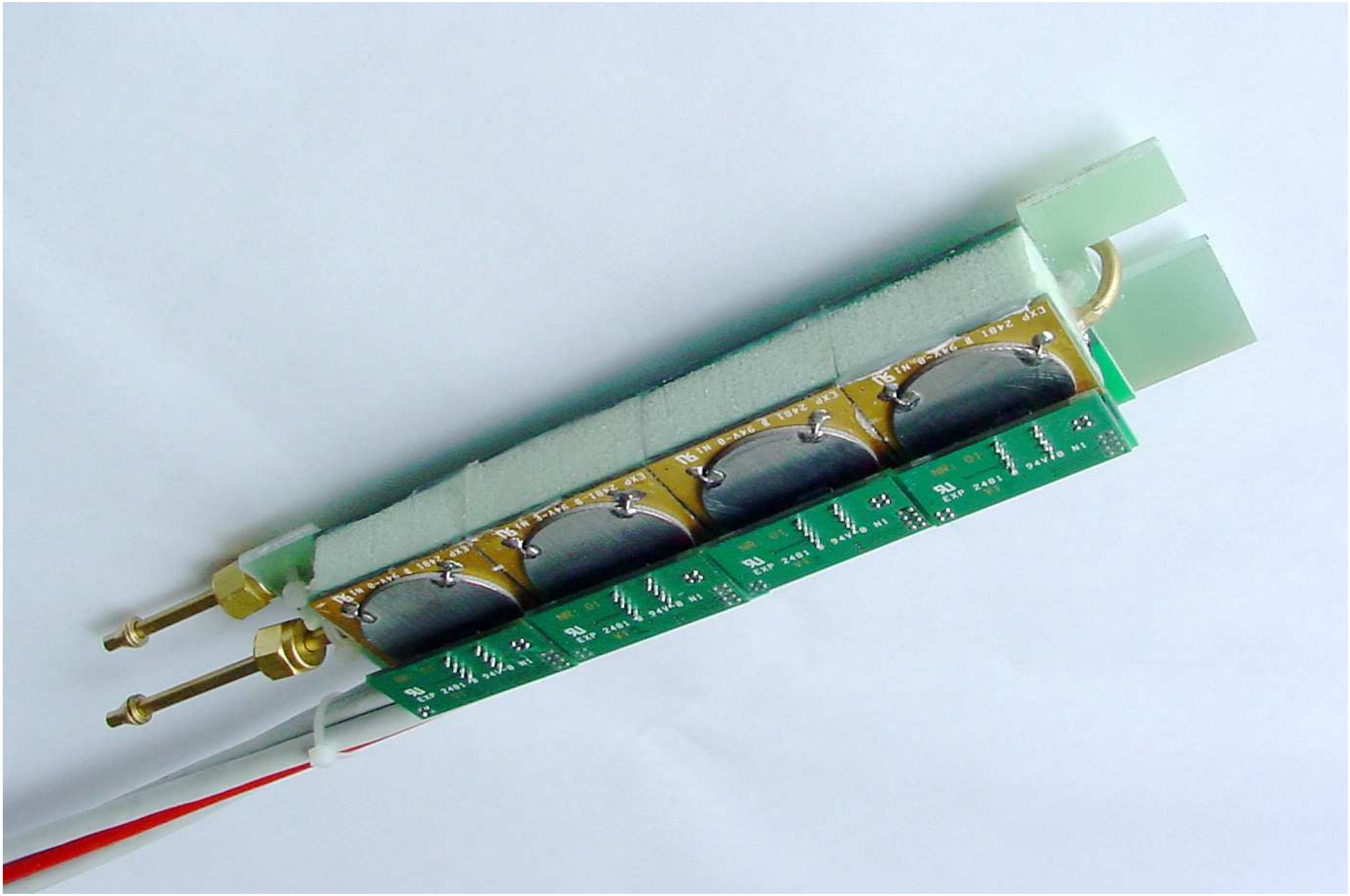
Transverse Magnet Uniformity

Magnet Field Measurements

- **Uniformity along beam excellent.**
  - $\Delta B_y(0,0,z) = 5\times10^{-5} T$
  - No resonances near Hera beam.
- **Horizontal uniformity as calculated**
  - $\Delta B_y(x,0,0) = 5\times10^{-4} T$
  - Correction coil may be needed
- **Vertical uniformity worse than expected**
  - $\Delta B_y(0,y,0) = 1.25 - 1.8\times10^{-4} T$
  - Needs studied

Plans for Running

- **Transverse Polarized data taking**
- **1 hour end-of-fill unpolarized running**

Requests:

- **3-day shutdown for Si installation at the start of the "Lumi-Run"**
- **Polarization tuning as soon as reasonably possible.**
  - Dedicated Pol tuning Jan 2002
  - After collisions established possibly more dedicated tuning