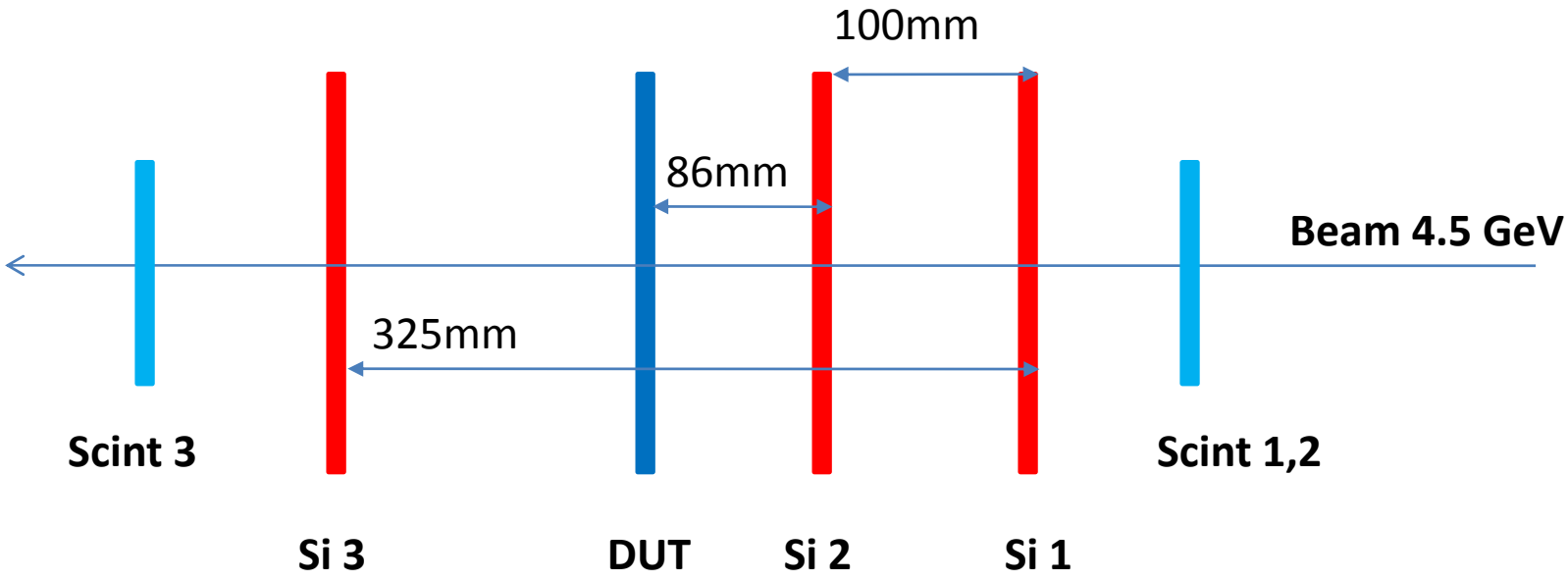
Test Beam Report

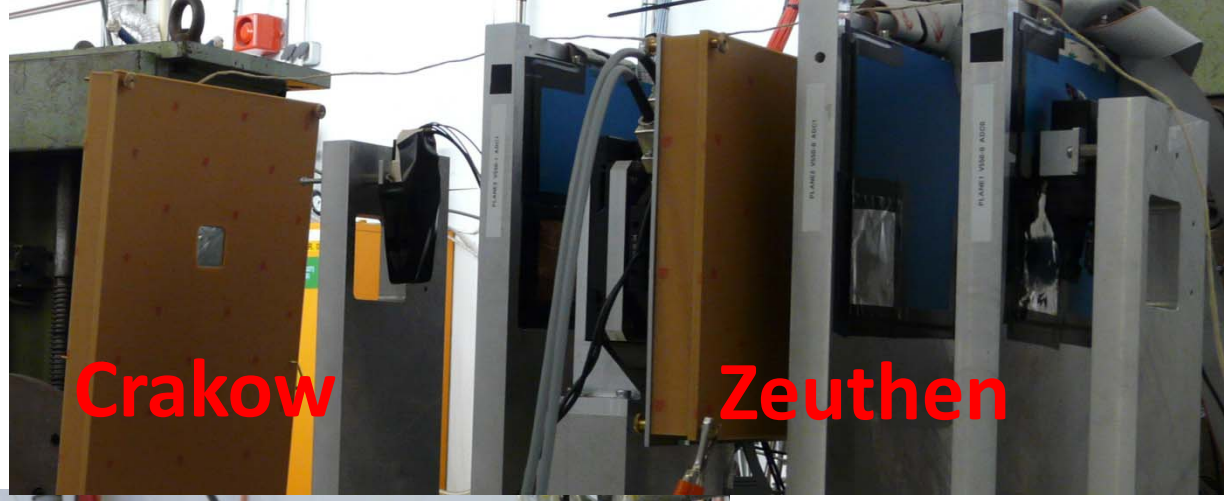
09.08.2010

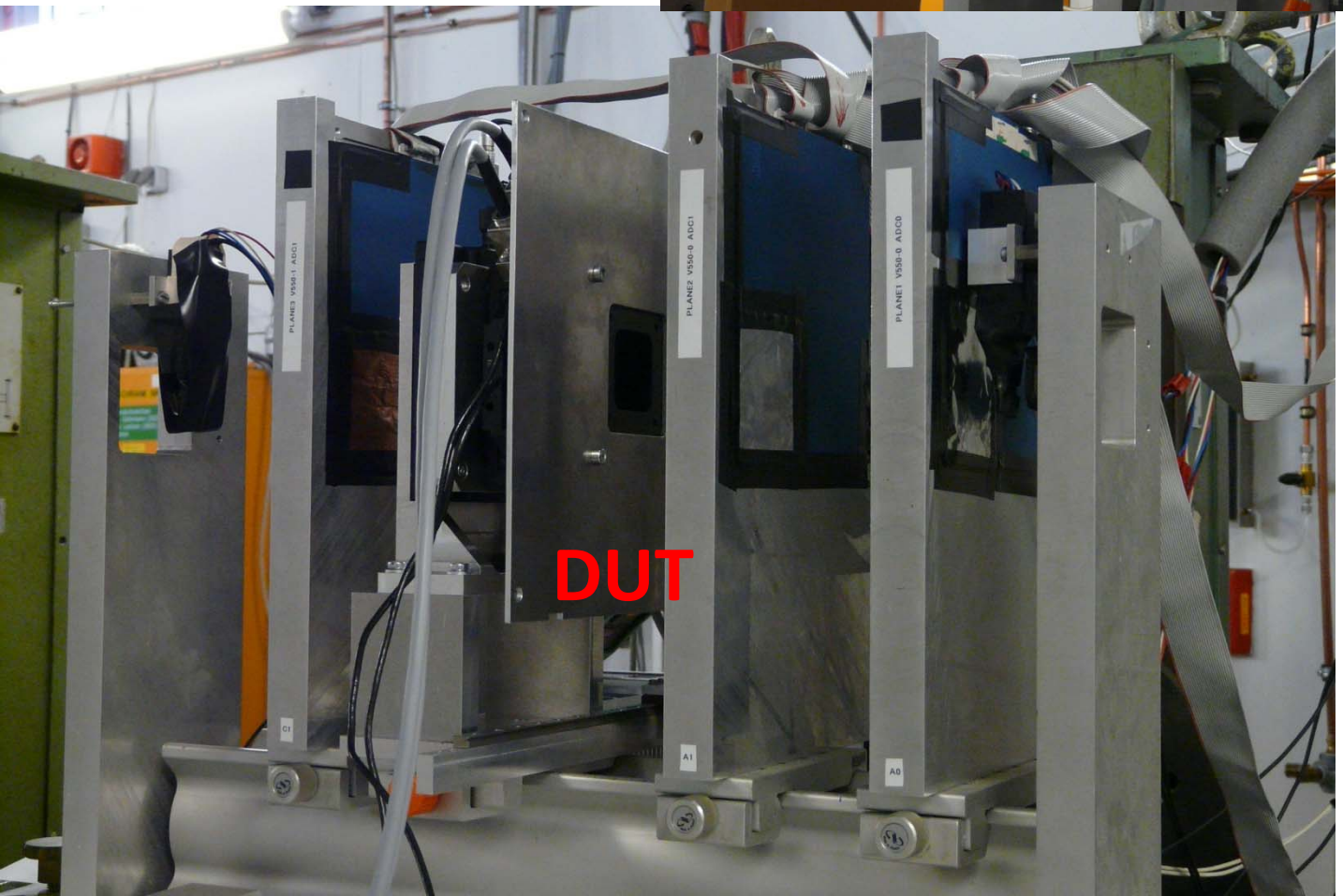
Sensor Box in Telescope



- Si plane is located in 11 mm from the edge of plane
- Position of GaAs plane should be measured

Set Up





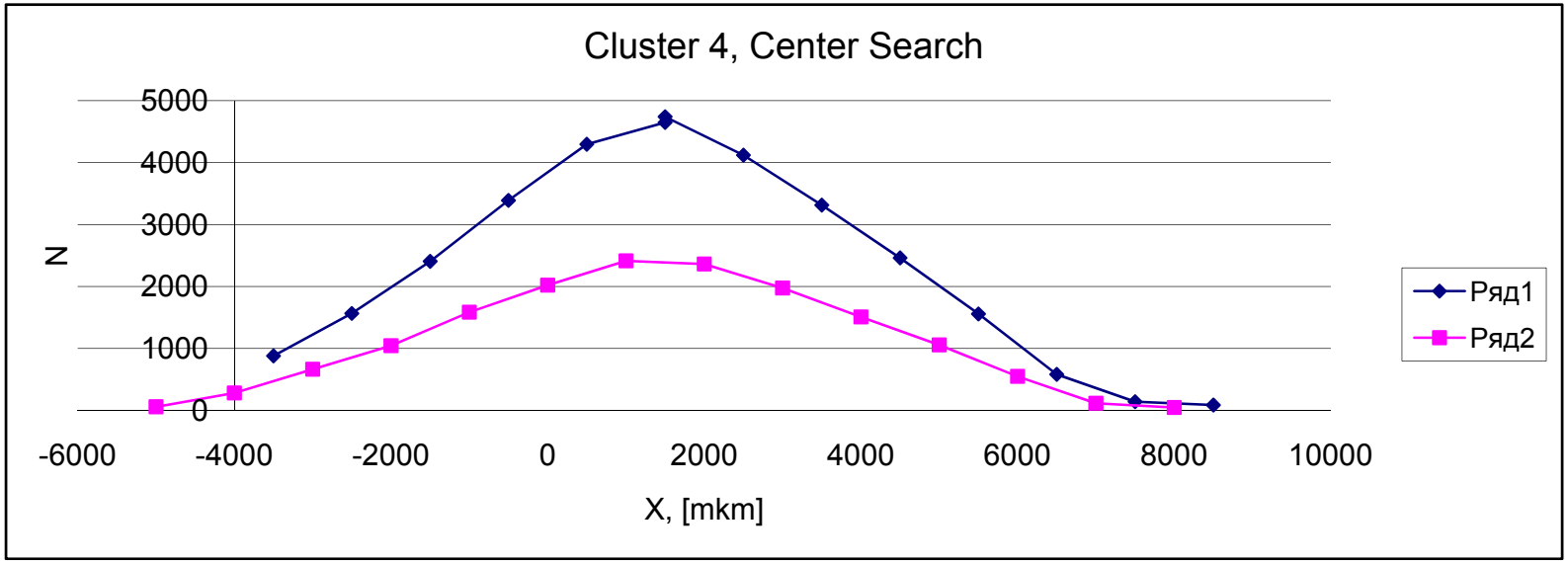
Software

- New version of ADC_v1721 DAQ was used (Ringo, Itamar) →
  - Spectra, pedestals, trigger time, amplitude histograms (Very helpful)

- Old Telescope DAQ (new version just appeared) →
  - Time stamps, Veto from Telescope
  - Number of triggers ±2 events

Cluster Allignment

- Only 2 and 4 Clusters worked
- For every cluster center was set with 1mm accuracy



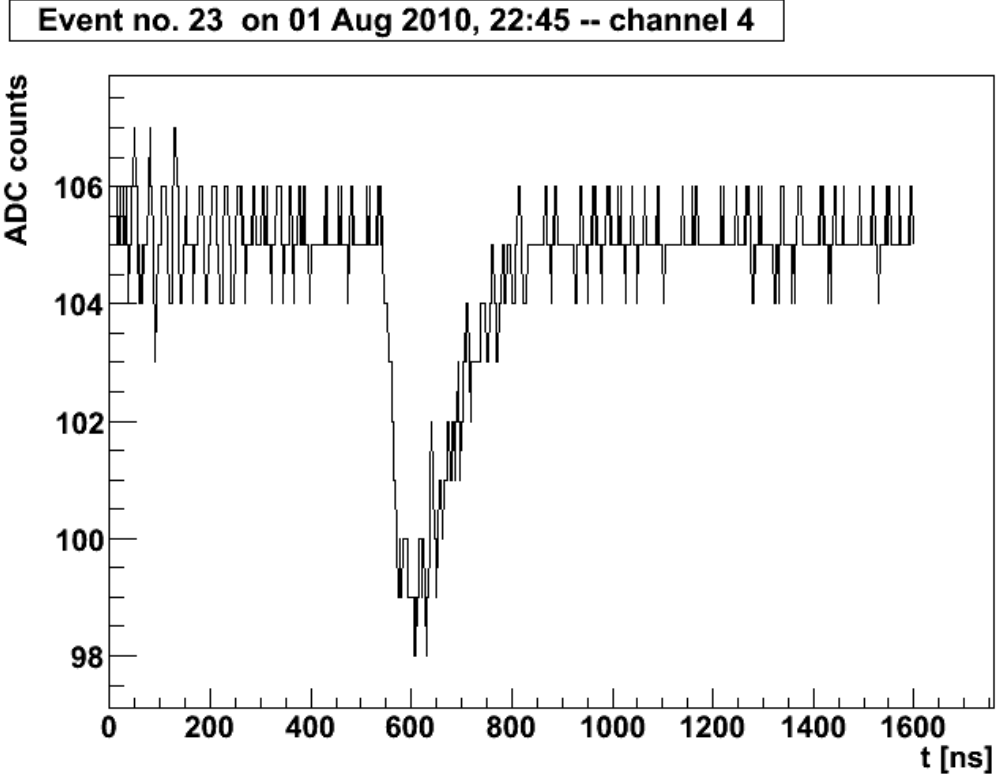
First Success

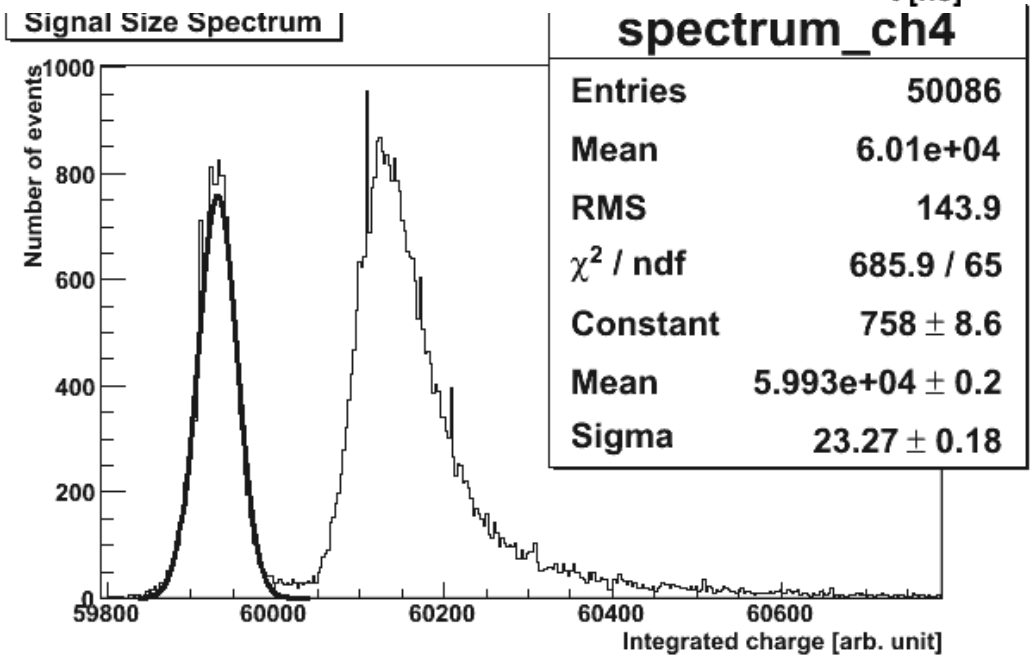
- Signals from beam

- Spectra measured

  Cluster 4, Ch 4

  S/N ~ 8.3

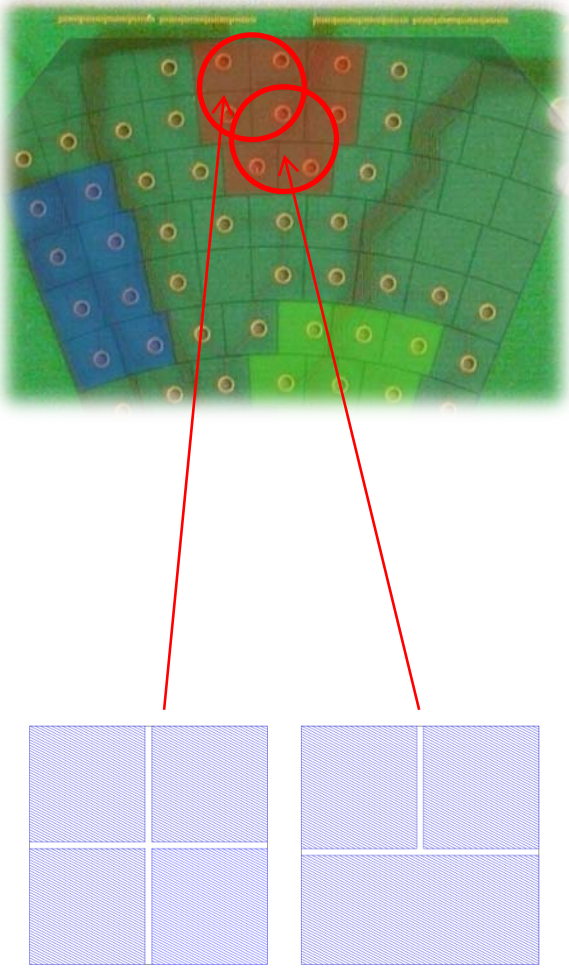




What Was Measured

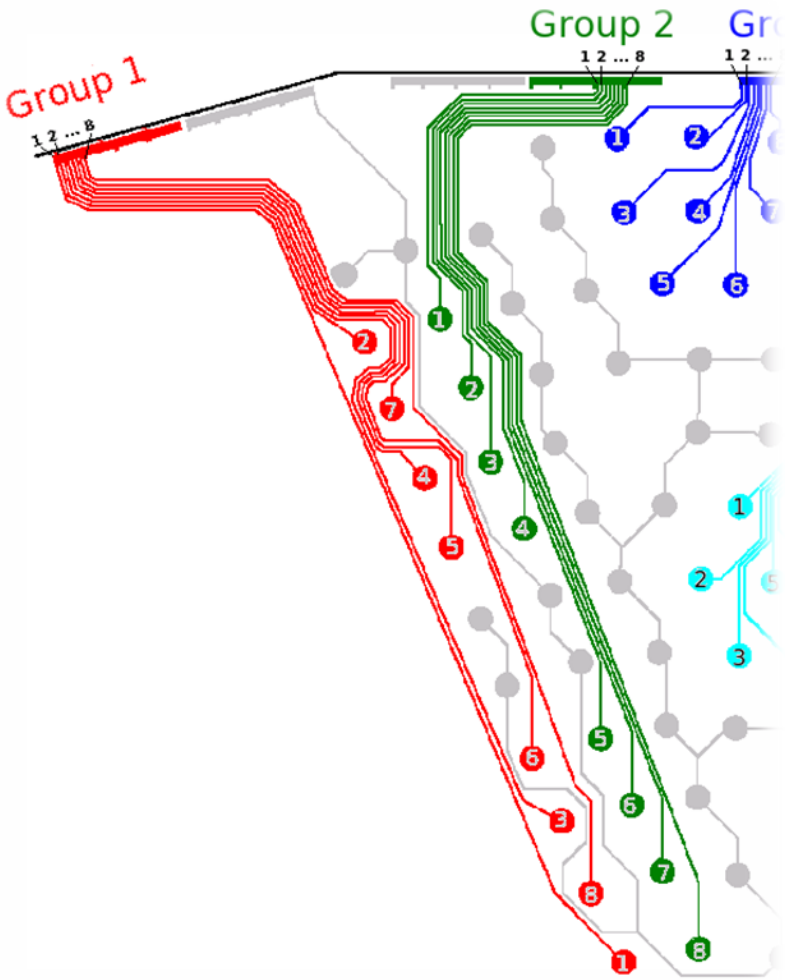
- Cluster 2 and 4:
  → Every pad (~200.000 events)
- Cross talks for chip 1 and 3
  - 4 ch - connected to pads
  - 4 ch – not connected to pads
- 4 and 3 pads edges irradiations (2 million events)
- Time Stamps Runs

One week measurements



Cross Talk

- Channels 2,4,5,7 connected to chip1, In channels 1, 3, 6, 8 cross talk measures
- Channels 1,2,3,4 connected to chip3, In channels 5, 6, 7, 8 cross talk measures



Signal Size Spectrum