

Preparation of the scintillator AHCAL active layers for the tungsten beam test

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DESY

Coordination meeting at CERN

July 1, 2010

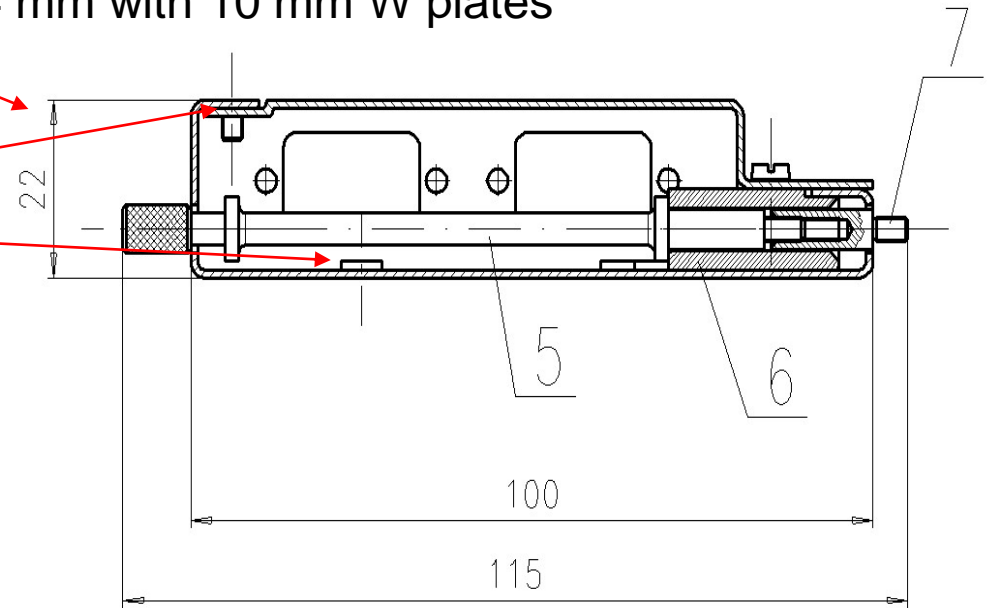
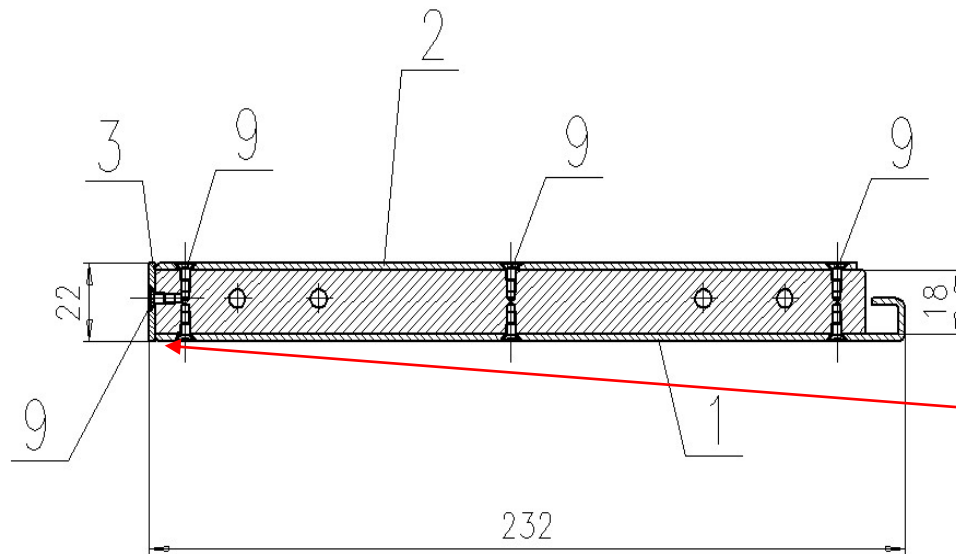
Mechanical modifications

To adapt the pitch:

was 30 mm with 16mm Fe absorber plates

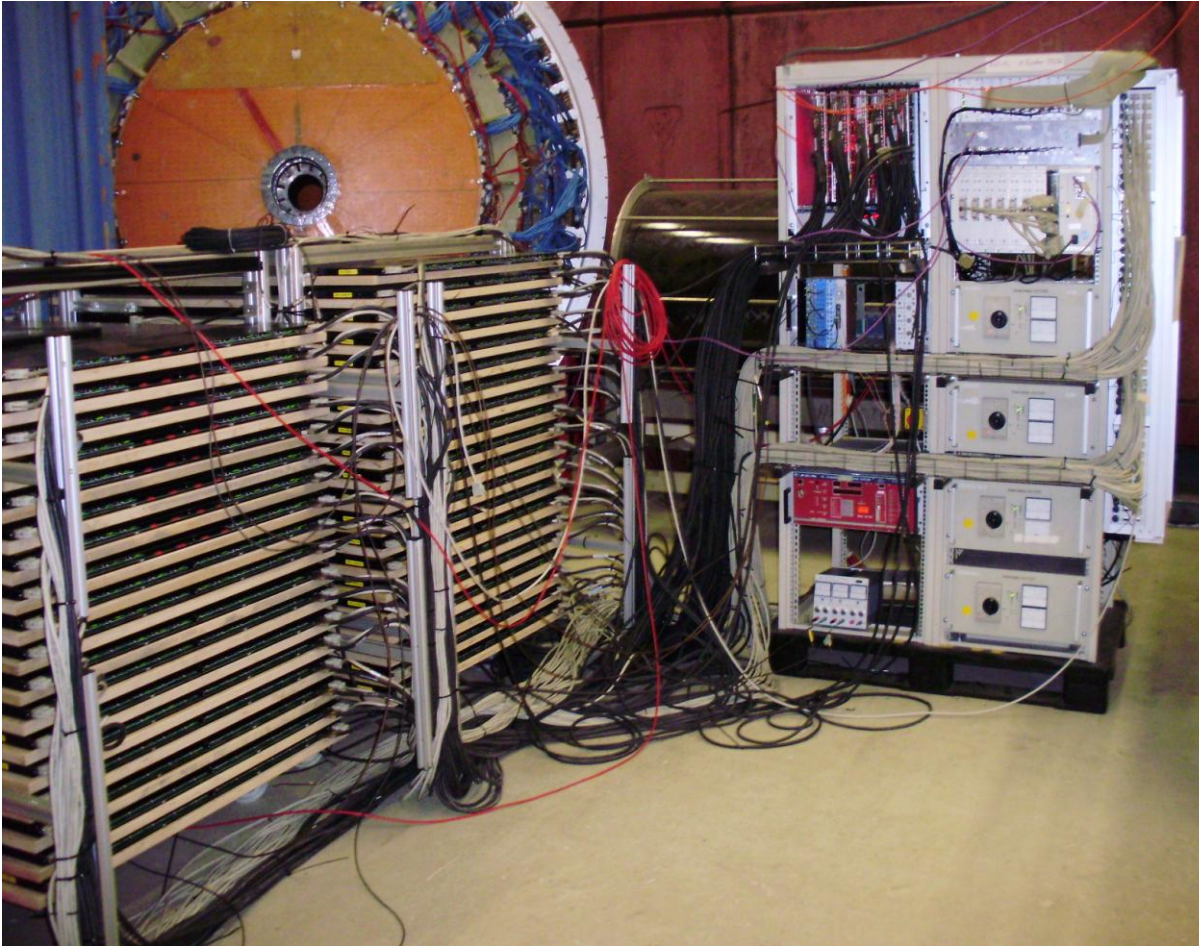
Will be 24 mm with 10 mm W plates

CMBs: - Height changed to 22mm
- some screws types exchanged



VFE: - Height also changed to 22mm

Status AHCAL

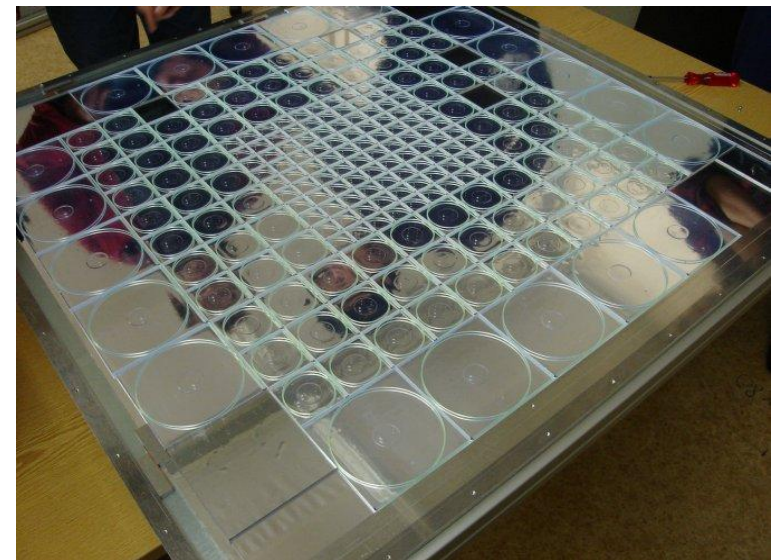


Two stacks with 20 (18) modules and the electronics crate are located at DESY Hall West

Recall: 30 modules with fine 3x3cm² cell core,
8 with 6x6 cm² cells in the centre

Almost “fully operational”
to be repaired:

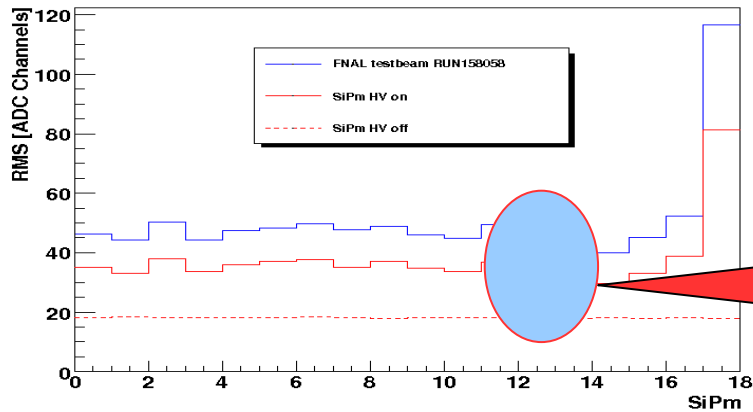
- B-halfmodules of module 1 & 2
(problem maybe found today:
cable grounding)
- 1 CMB (module 30)
- some stability issues



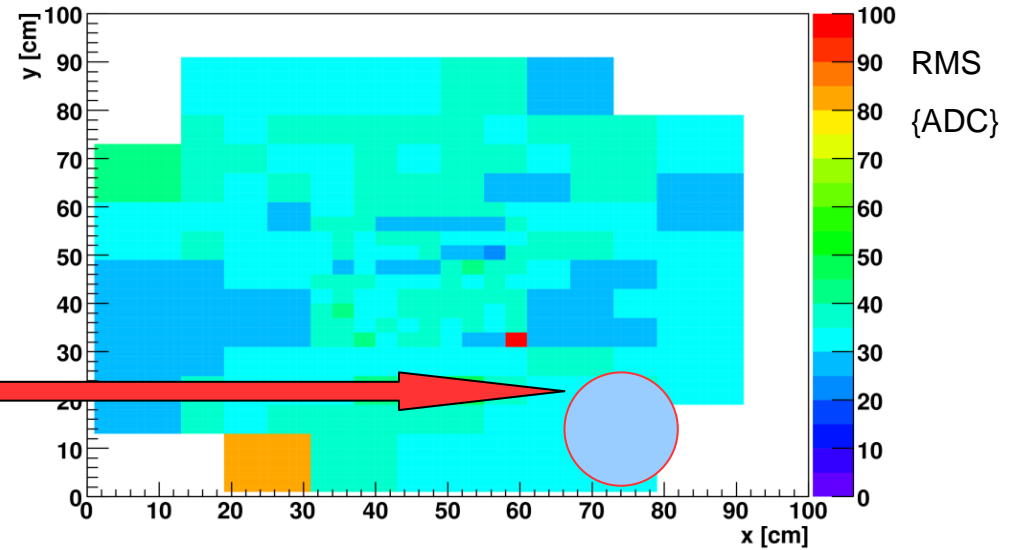
Dead Channels

Dead channels can be clearly identified!

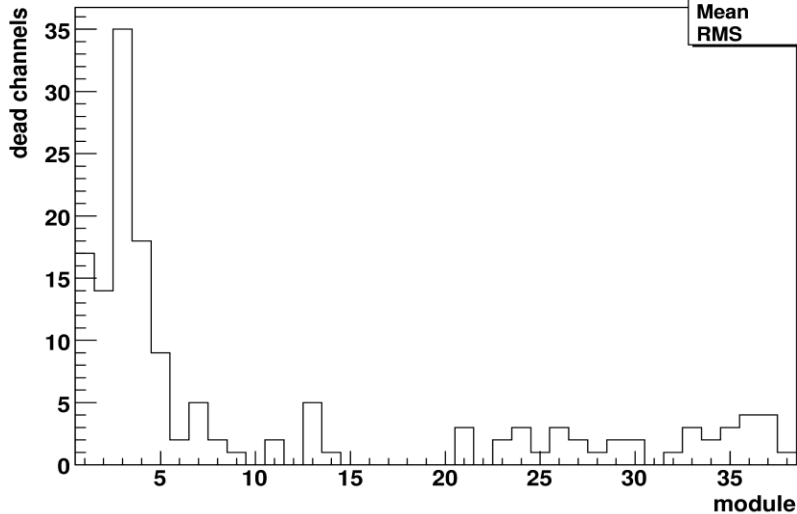
Module_9, Chip_11



Module_9



deadPerMod



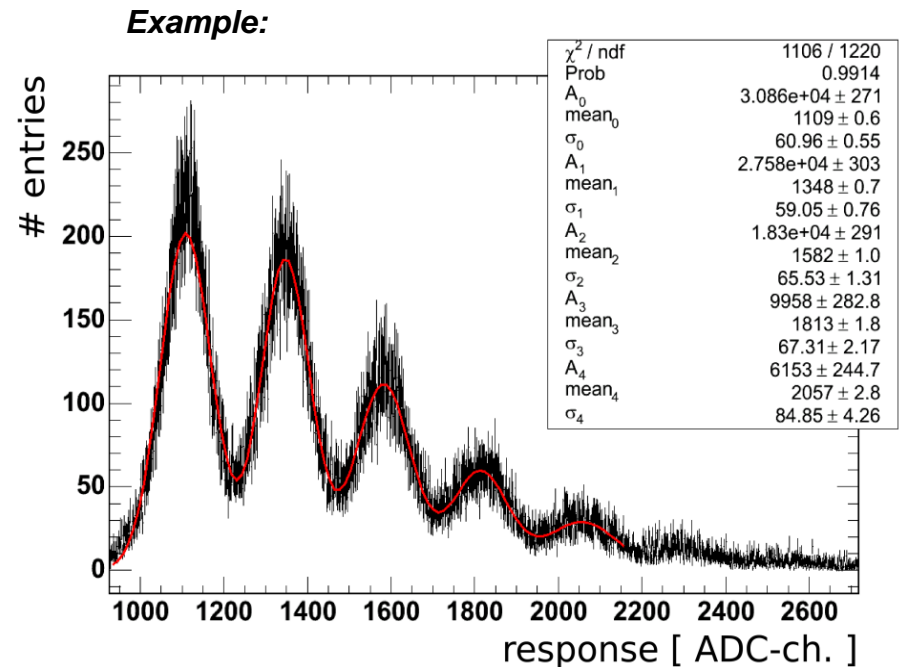
deadPerMod	
Entries	148
Mean	10.53
RMS	11.96

- Approximately 150 dead channels (channel difference of runs 206069 and 206071)
- consistent with earlier measurements (approximately 2 %)
- RMS noise as expected

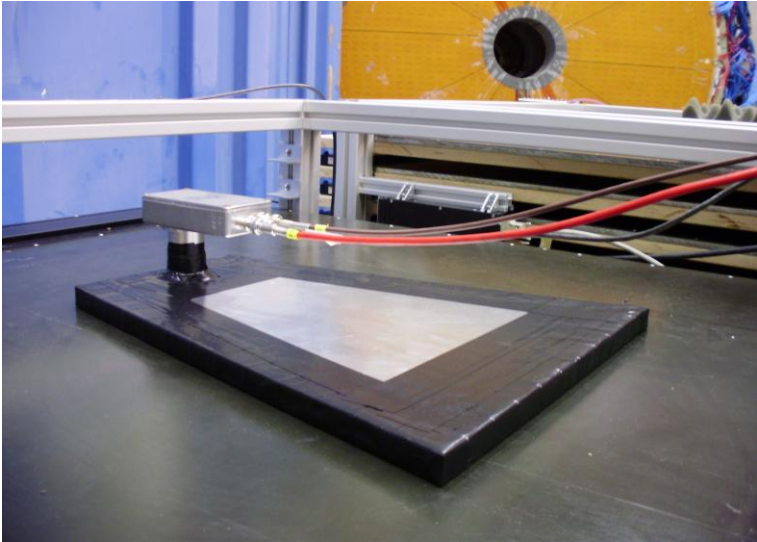
Gain calibration

- Data has been taken and converted to LCIO
- Binaries and LCIO files are stored on the Grid

- Software for gain analysis
not yet running because of OS
change from SL4 to SL5
(work ongoing)

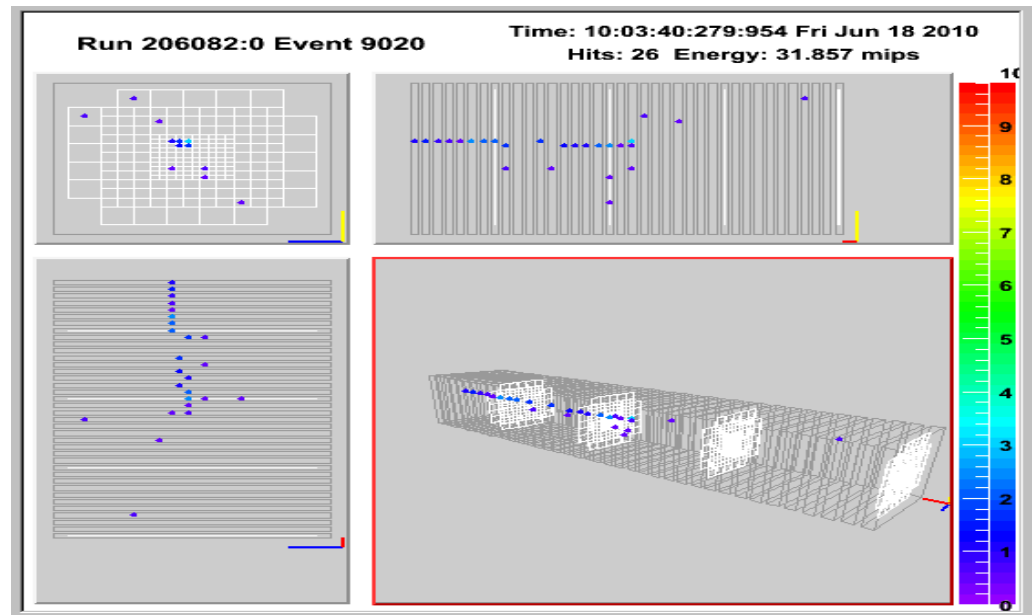


Cosmics



- Cosmic trigger has been set up
- very small
- not enough statistics for a mip calibration, but good exercise as testbeam preparation

Nevertheless we are able to show tracks from cosmic muons !
(Although detector is not calibrated (calibration from FNAL))



Next:

Finish repair work

complete some basic checks (working point etc)

Packing and shipping end of August

Arrival at CERN Aug 30

Start to put the installation team together

