Status of FNC and FTS

A.Bunyatyan
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Forward Neutron Calorimeter (FNC)

Hardware (Detector)

The new FNC is installed in the HERA tunnel (∼107m). All works which require access to the tunnel (cabling, shielding, LED control boxes, α-PM, temperature sensors, air cooling) are done.

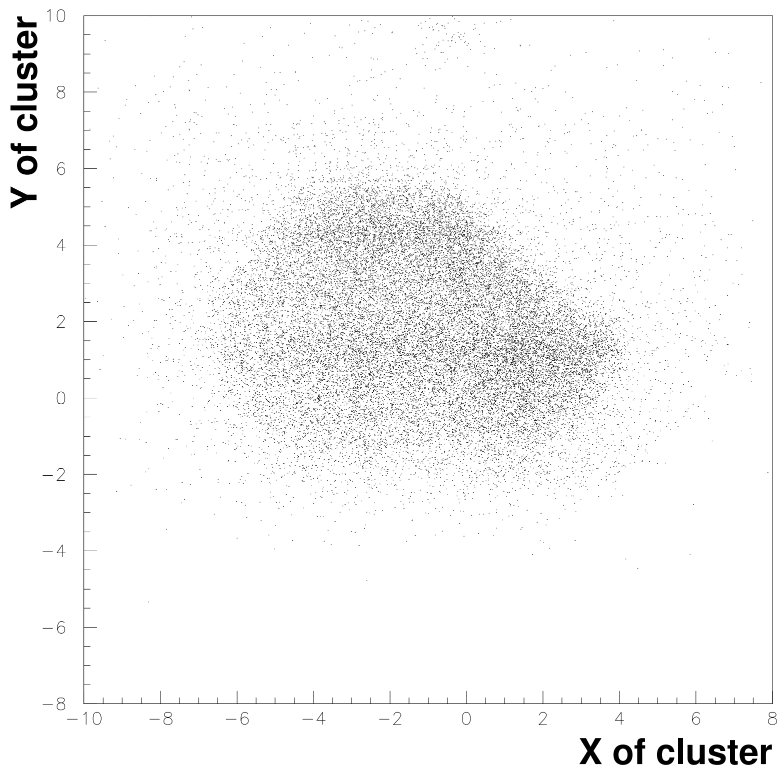
Electronics

- **New 12-bit FADCs are installed into one VME crate and tested/calibrated**
- **Trigger/control electronics is updated to support two different types of LED monitoring pulses**
- **A new control logic module (CAMAC) with PLDs is made and currently being tested.**

Software

- **The FADC-s readout program running on VME DSP-processor is updated**
- **Slowcontrol programs are updated and working. HV-control is moving to H1DCM system.**
- **Updated FNC simulation is ready, the reconstruction program is almost ready (to be tested with real data).**
- **Event display, L4 selection and online histogram package to be updated.**

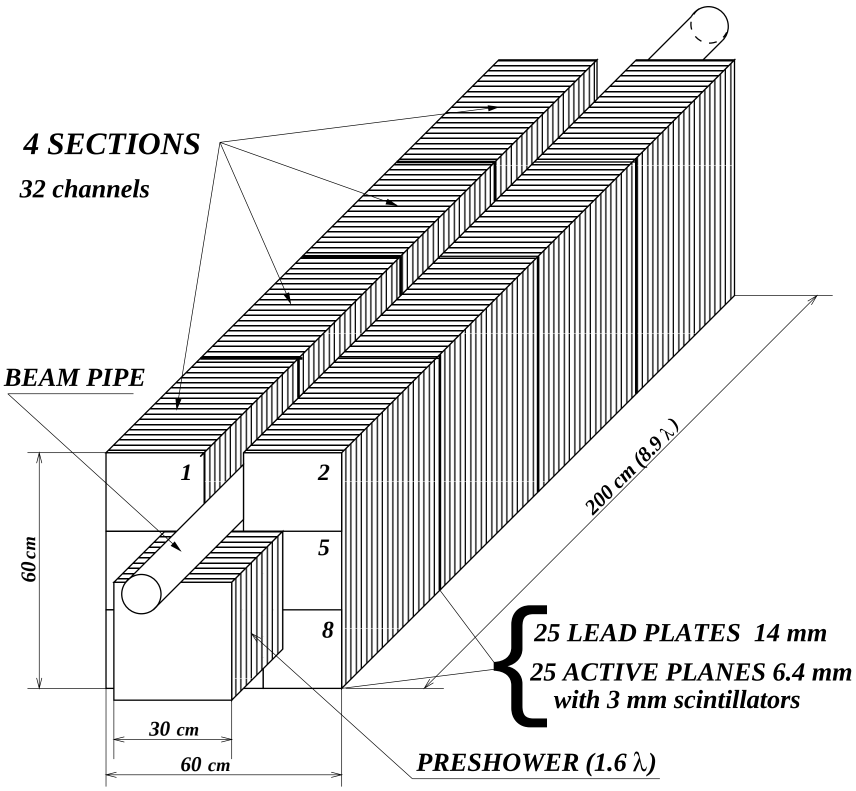
The FNC performance was tested with the beam gas data collected with local DAQ.
(Clusters are reconstructed with a new FNCREC program).



However,

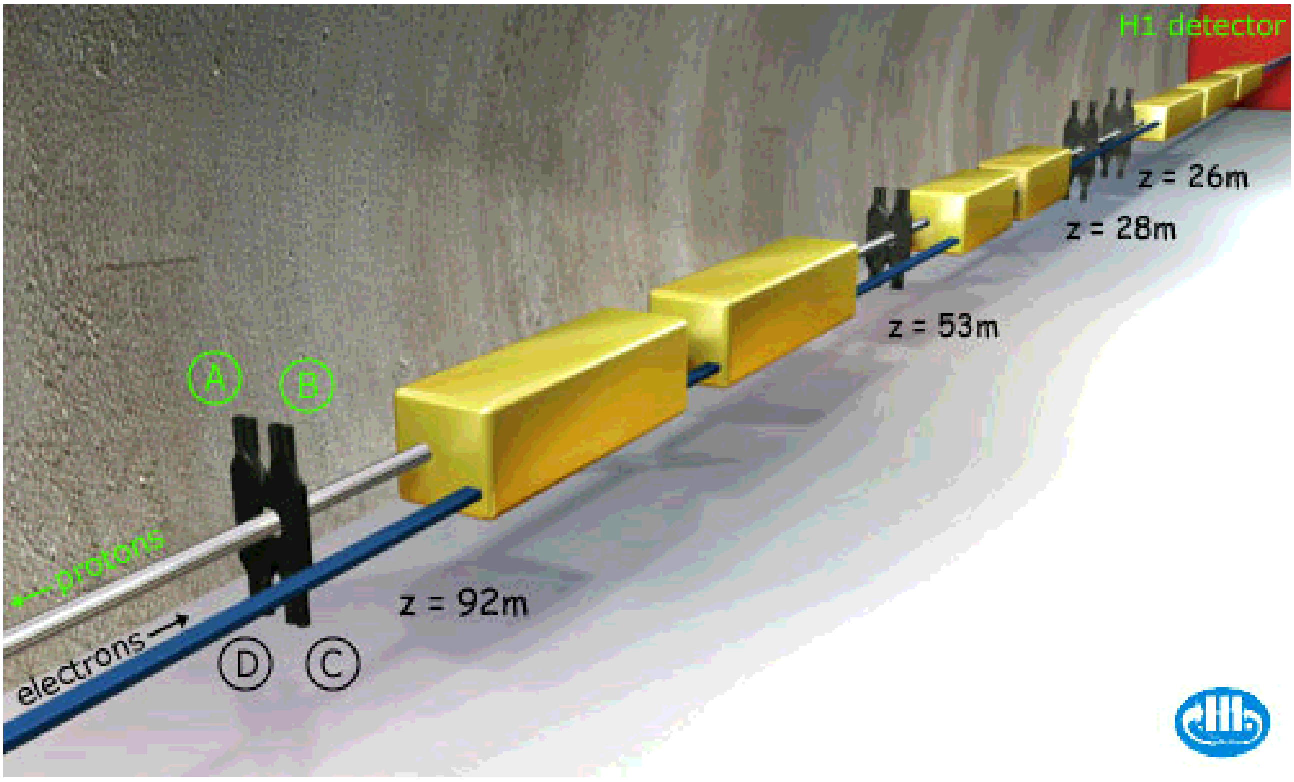
-the recent power cut caused some damage in a readout and slow control systems. Is not solved yet.

-the data transfer from the FNC processor to H1 readout (branch 10) is unstable. Is being studied by I.Cheviakov.



4 Main Modules (8 channels each)
Preshower (18 channels=9x+9y)
<u>total 50 channels</u> +Veto Counters (2 channels)

Forward Tagging System (FTS)



The upgraded FTS is installed in the HERA tunnel.
Performance was tested with cosmics - is OK.
Need to be tested with real data.

However,

the DAQ readout is not operational yet: first two stations are readout via branch 10, the last two stations are readout via FPS branch (is in local mode now because of cosmic tests of FPS).

Conclusions

In general the FNC and FTS detectors are OK, but there is a problem with readout after the recent power accident. We may hope that the problems will be solved before the lumi start.