

TPC Large Prototype Micromegas panels

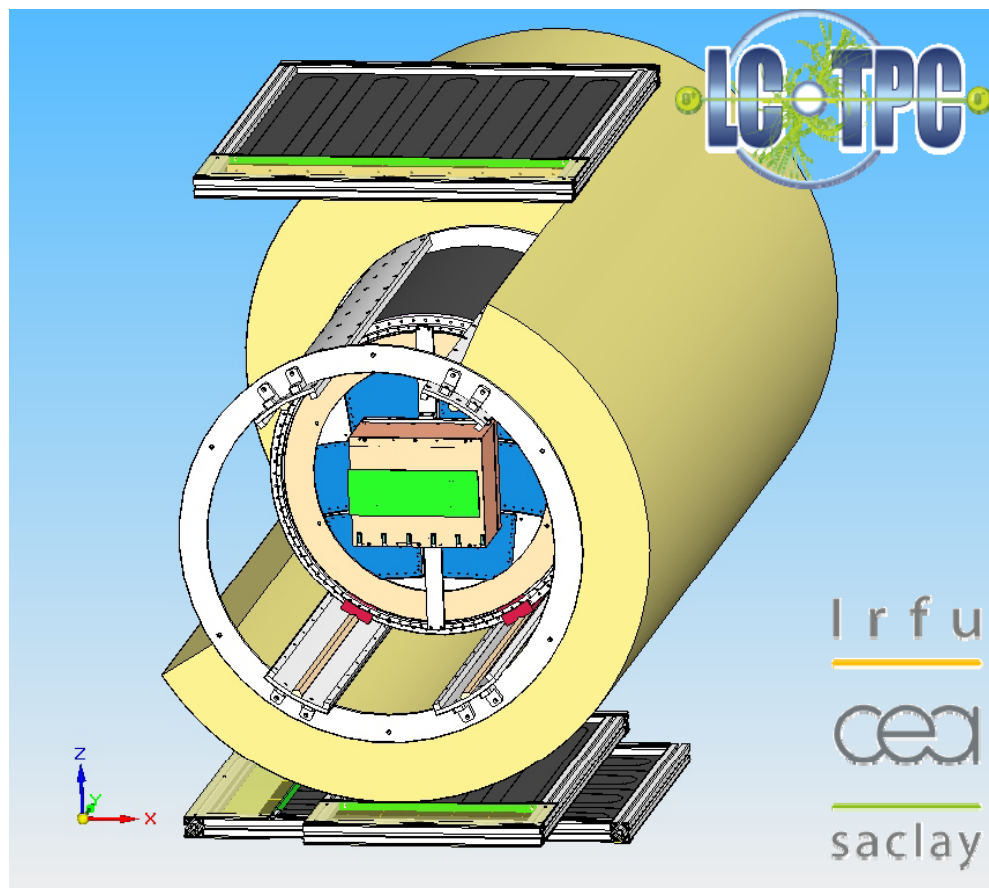
D. Attié, P. Colas, E. Delagnes, M. Dixit, A. Giganon, M. Riallot, F. Senée, S. Turnbull



**Micromegas Large Prototype
panels**

Installation at DESY

Preparing for beam tests

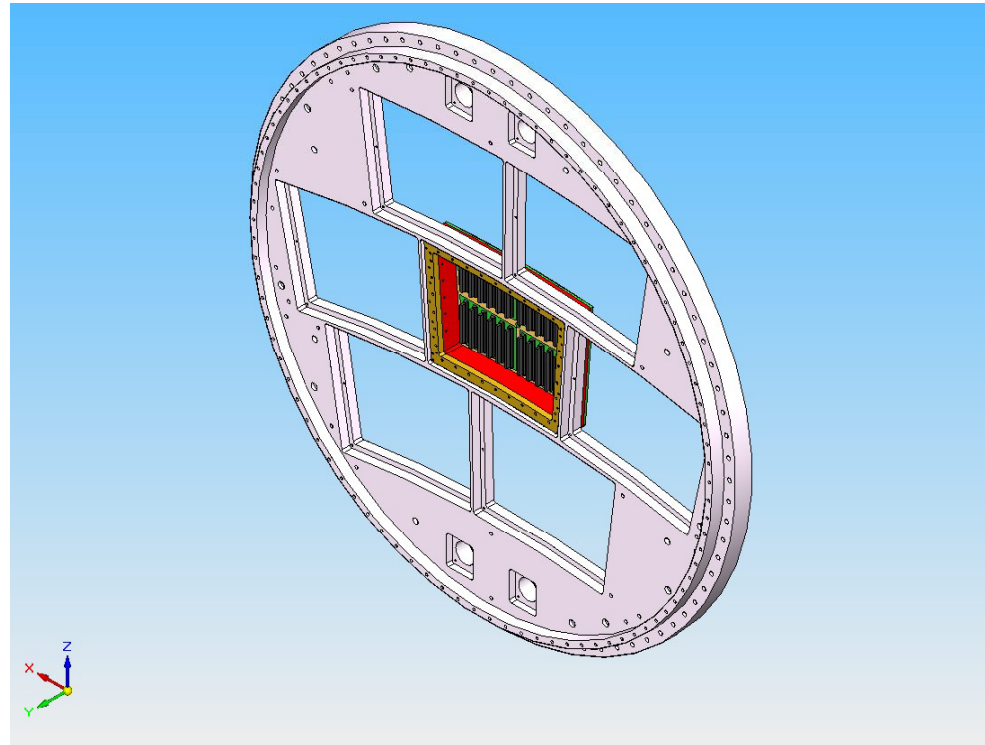


Panels: in 2008-2009: 1 panel at a time in the centre of the detector.

Start with standard pads

Continue (second half of November) with a resistive panel.

Others are dummy. Also plans for trying a multichip InGrid+TimePix panel.

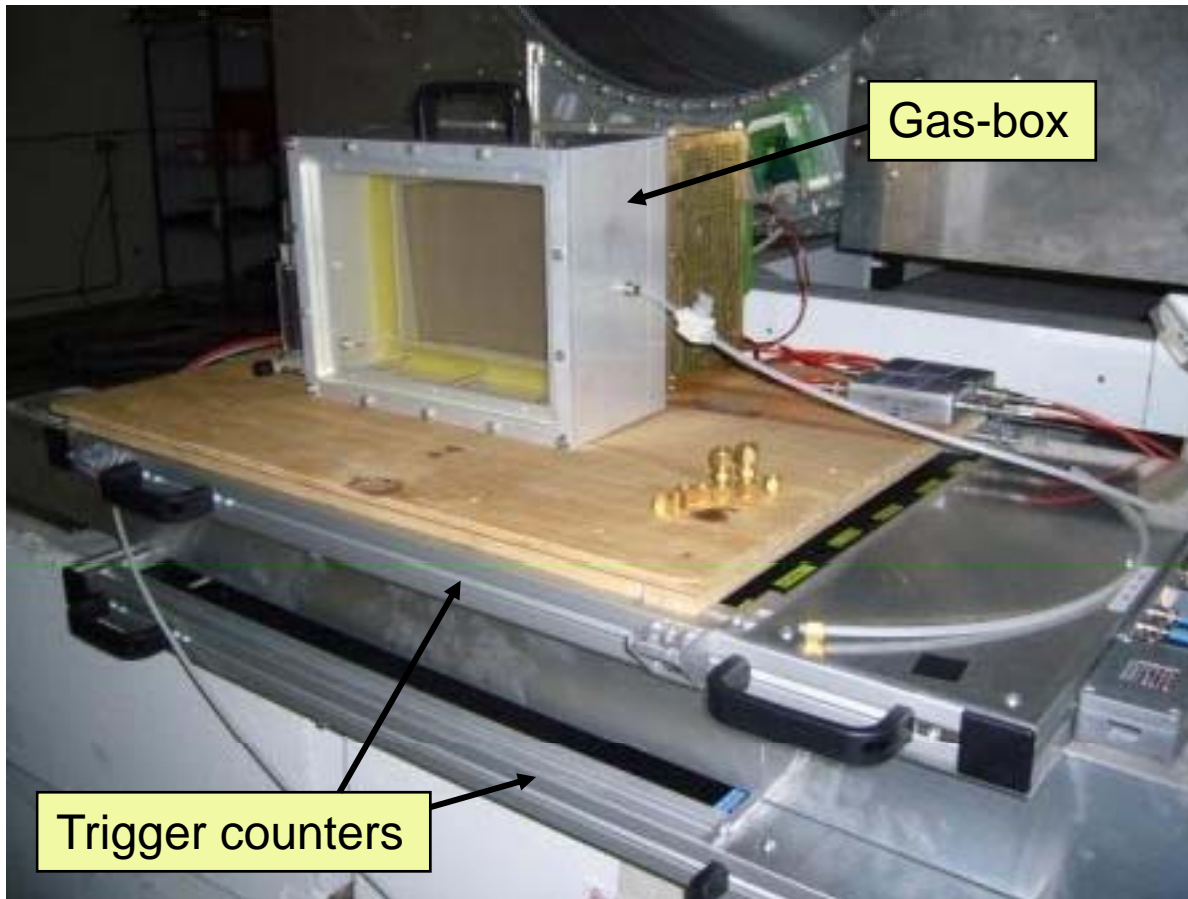




Phone meeting - Oct. 29, 2008

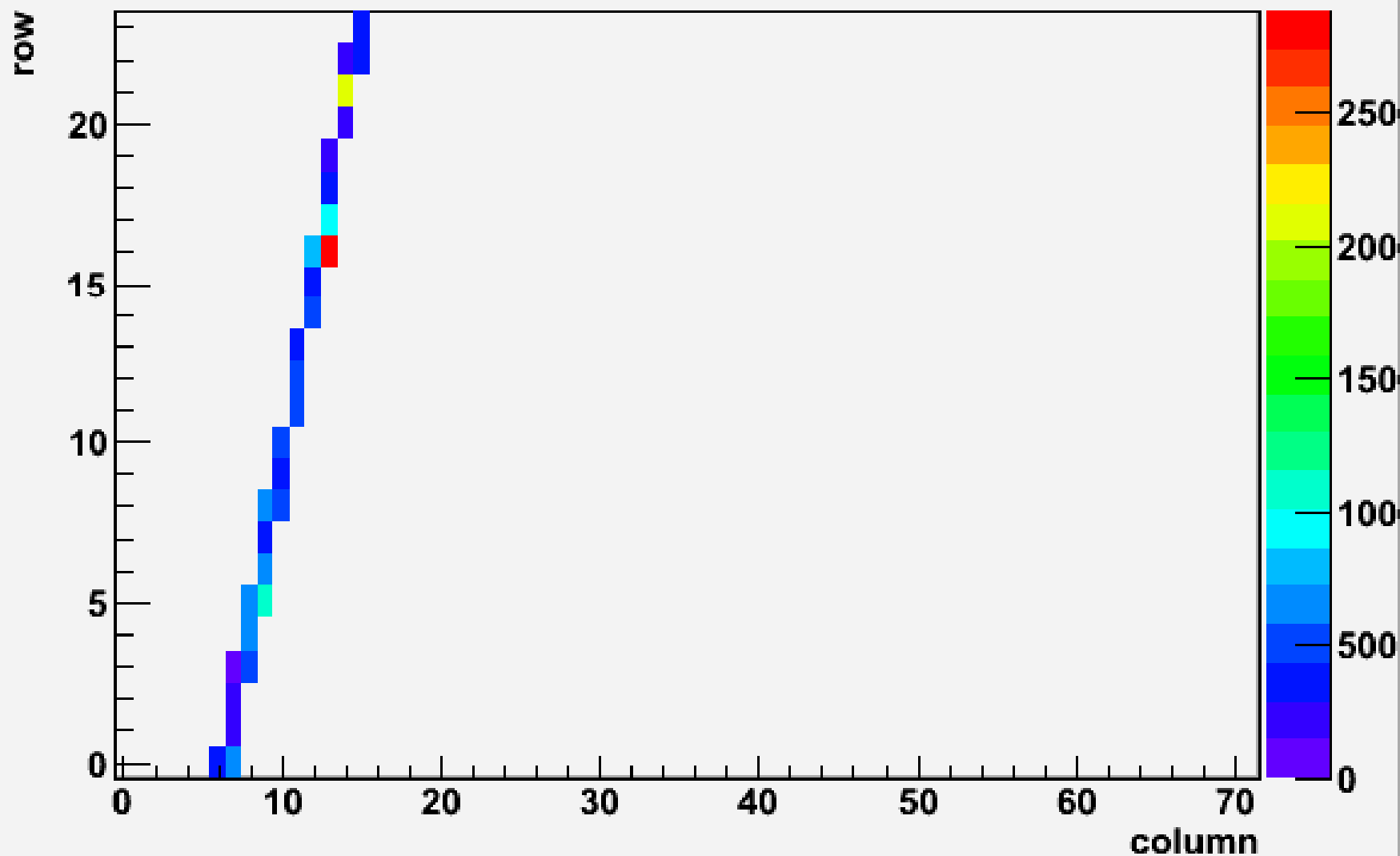
P. Colas - Large Prototype panels

In-situ TEST at DESY

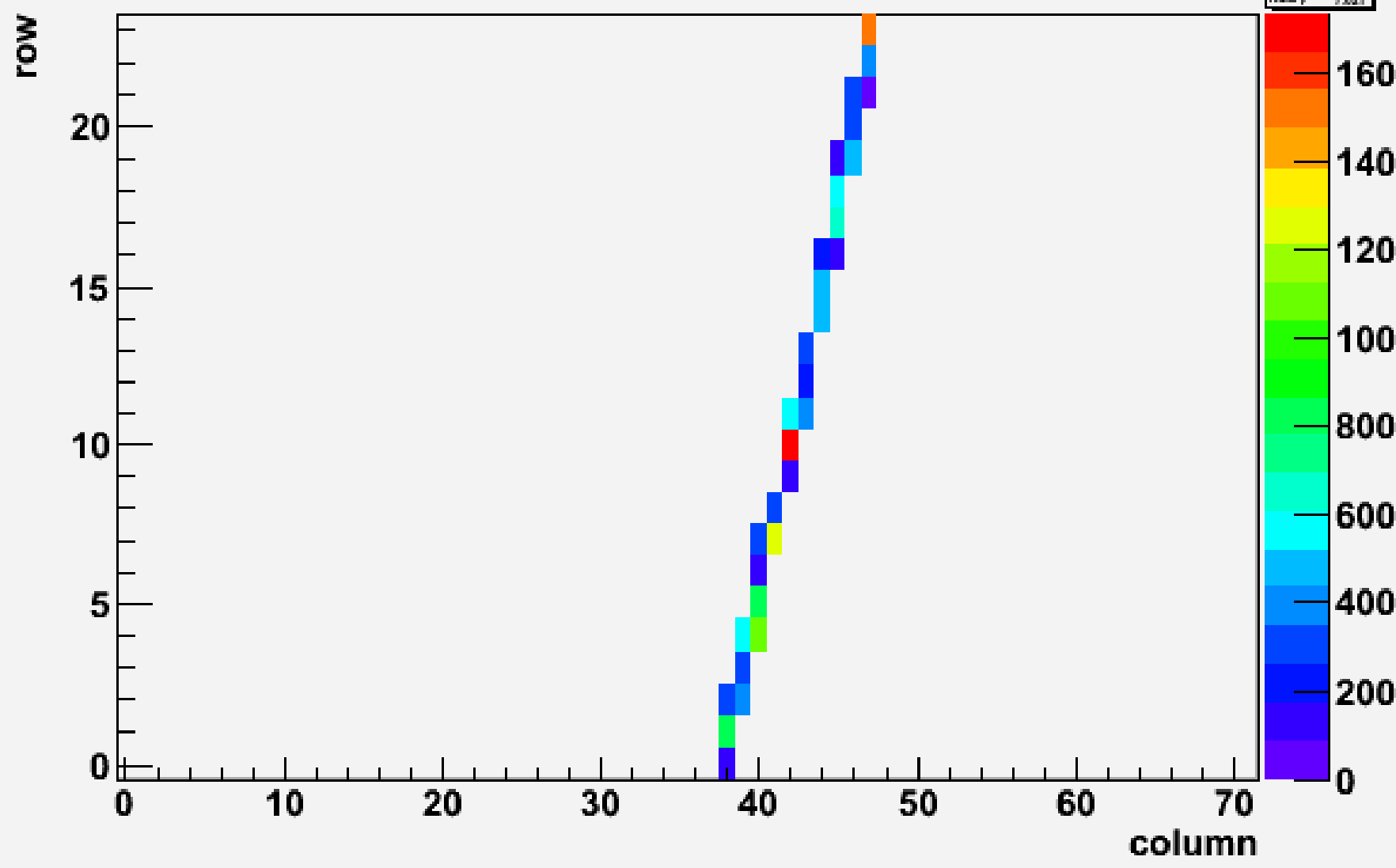


ADC for each pad

SUMMARY	
Entries	1120
Mean x	11.28
Mean y	12.28
RMS x	2.672
RMS y	0.78

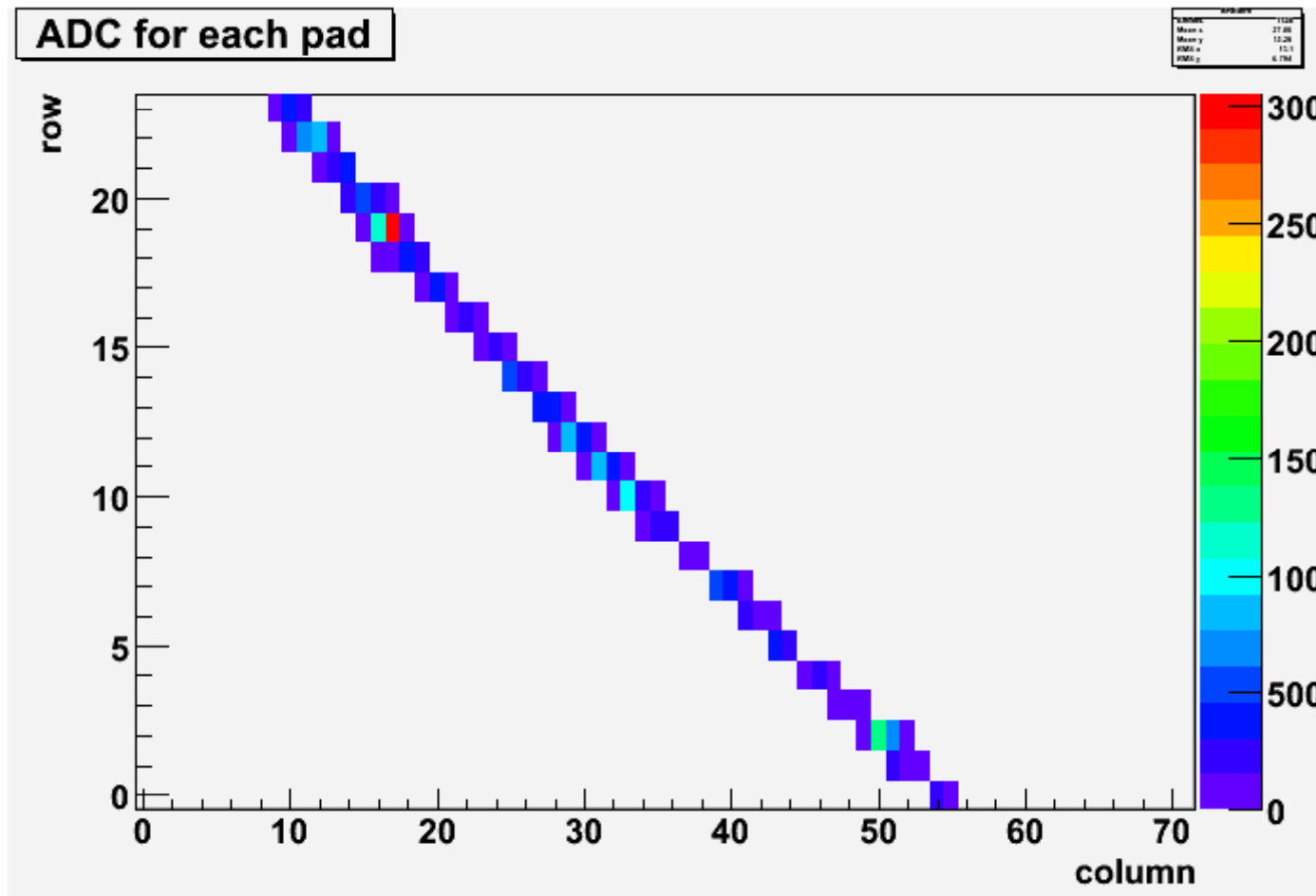


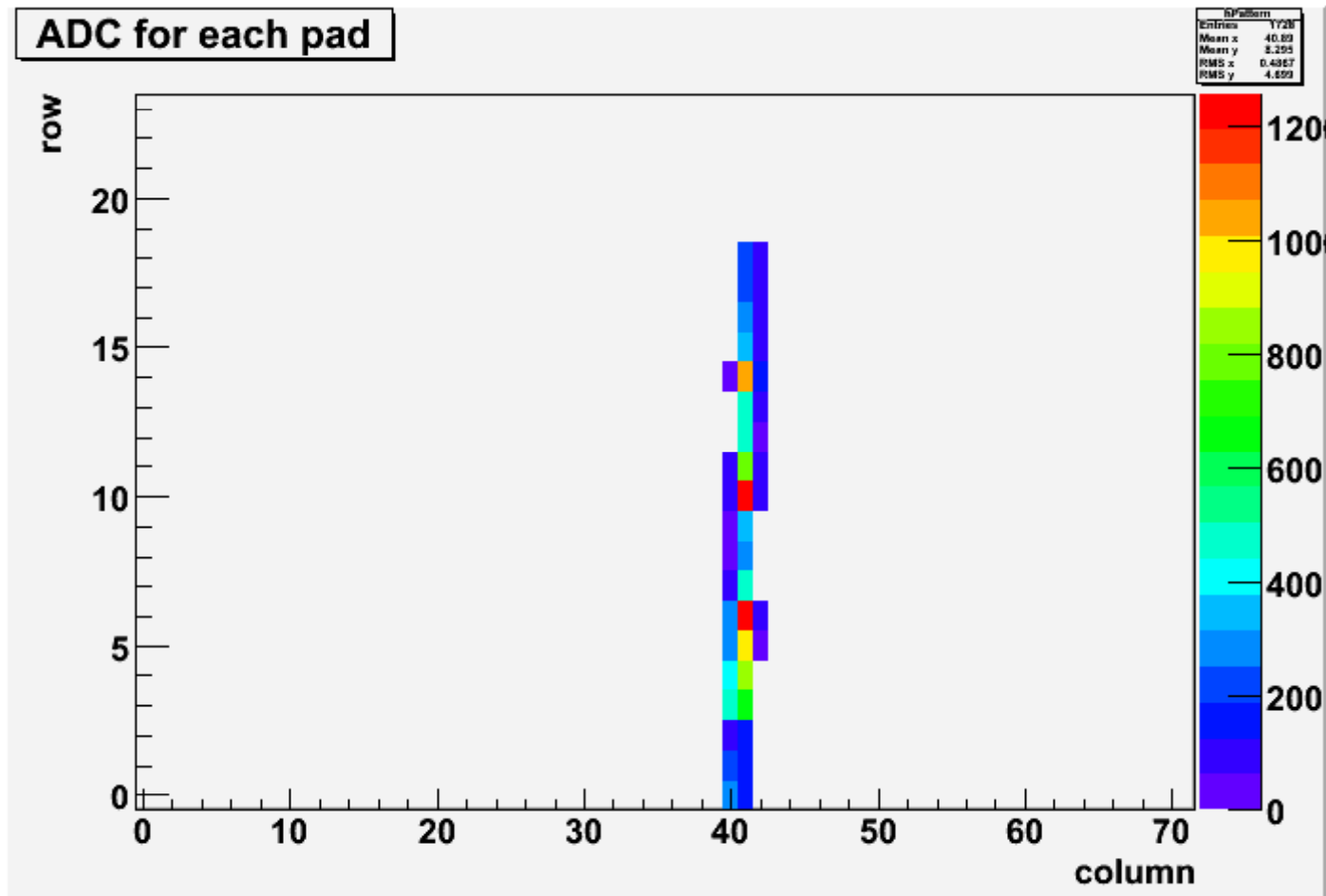
ADC for each pad

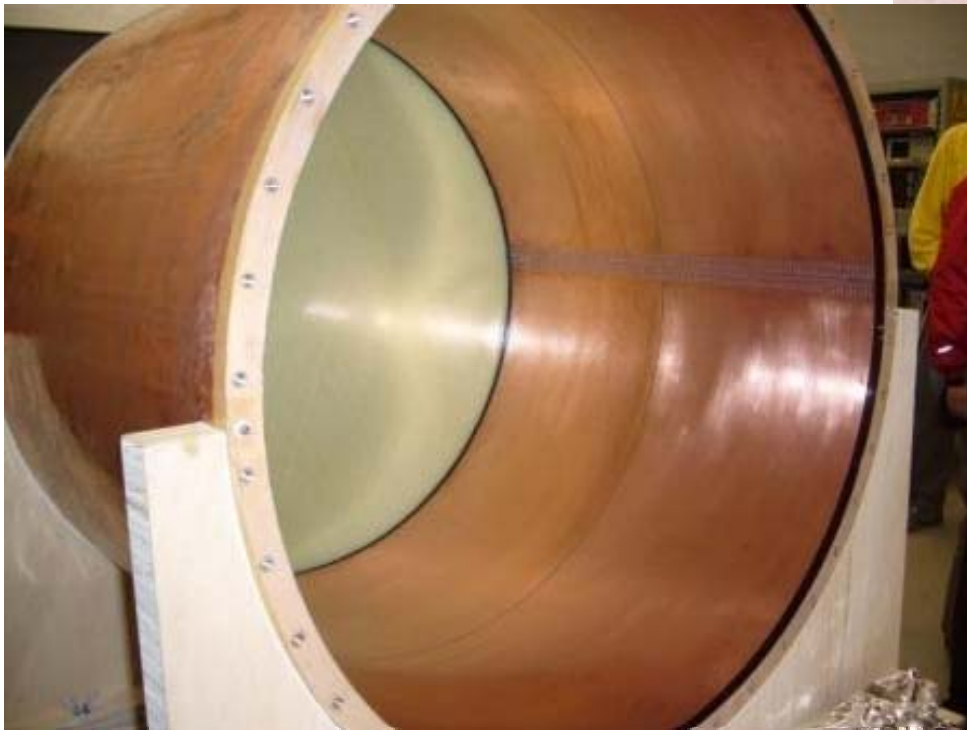


New detector with resistive foil in the gas box









Phone meeting - Oct. 29, 2008

P. Colas - Large Prototype panels

10

- Took data with P5 gas with standard pads on October 2 and 3 at 50 MHz sampling rate, and 200ns peaking time.
- Tested the whole chain again on October 27, and switched to the new module (with C-loaded kapton resistive foil) in the test box (took about 2 hours)
- Took data since October 27 with P5
 - 50 MHz sampling rate, 200 ns peaking time
 - 100 MHz sampling rate, 200 ns peaking time
 - 50 MHz sampling rate, 400 ns peaking time
- Switched now to T2K gas (Ar/CF4/isobutane:95:3:2)

plans



Take beam data in the magnet in the period of weeks 46-47-48 (+1 or 2?)

- Install and commission beam trigger (today)
- Mount standard panel + 6 dummies on the endplate
- Finalize and connect cathode
- Cool down magnet
- See how to set HV (1st ring to 360-370 V)
- Order gas : 25 bar per bottle, 1 bottle for 18 hours at 60 l/h, 1 bottle in 55 hours at 20 l/h.
- Add bubbler
- Excite magnet on November 10
- Then start beam data taking and analysis
- switch to resistive anode week 47