Test Bench

Wenxin Wang

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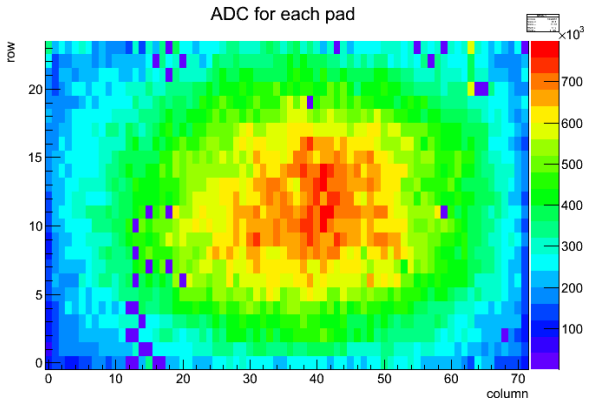
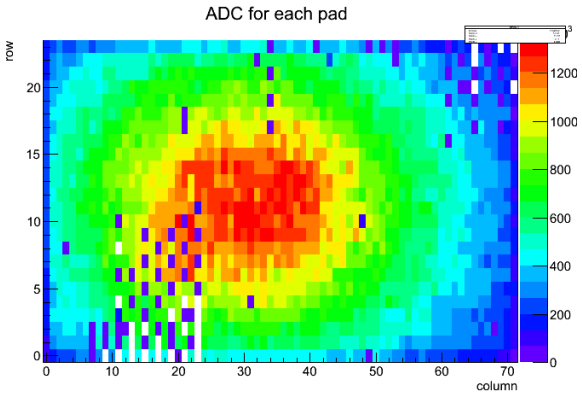
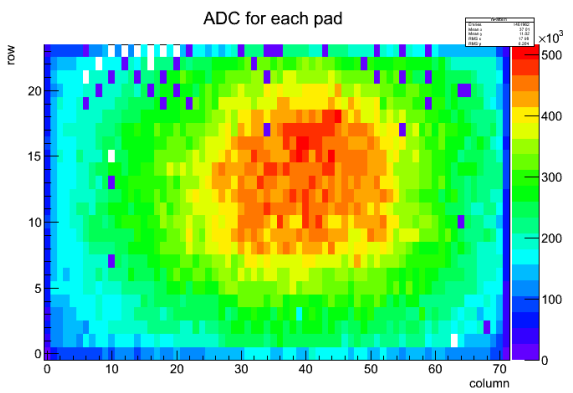
Test Bench



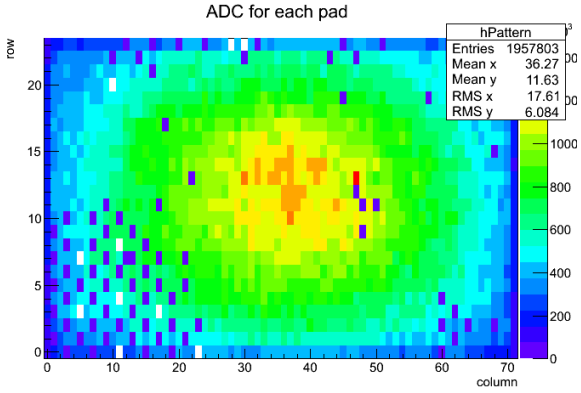
S1F_fem2



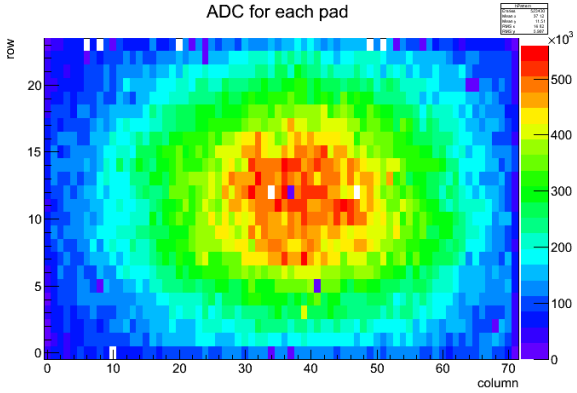
S3B-fem7



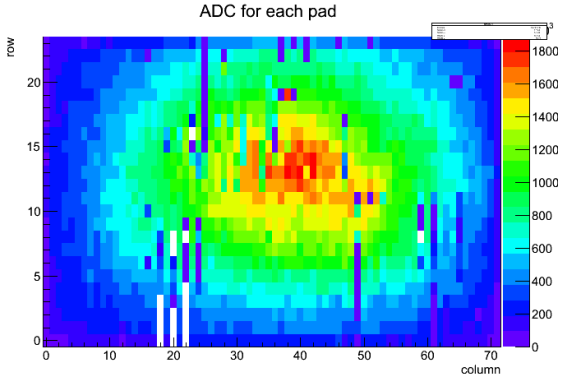
S8G-fem4



S4E-fem3

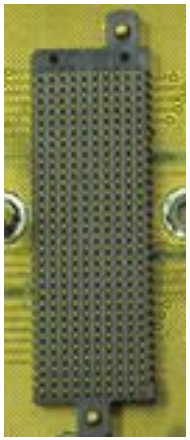


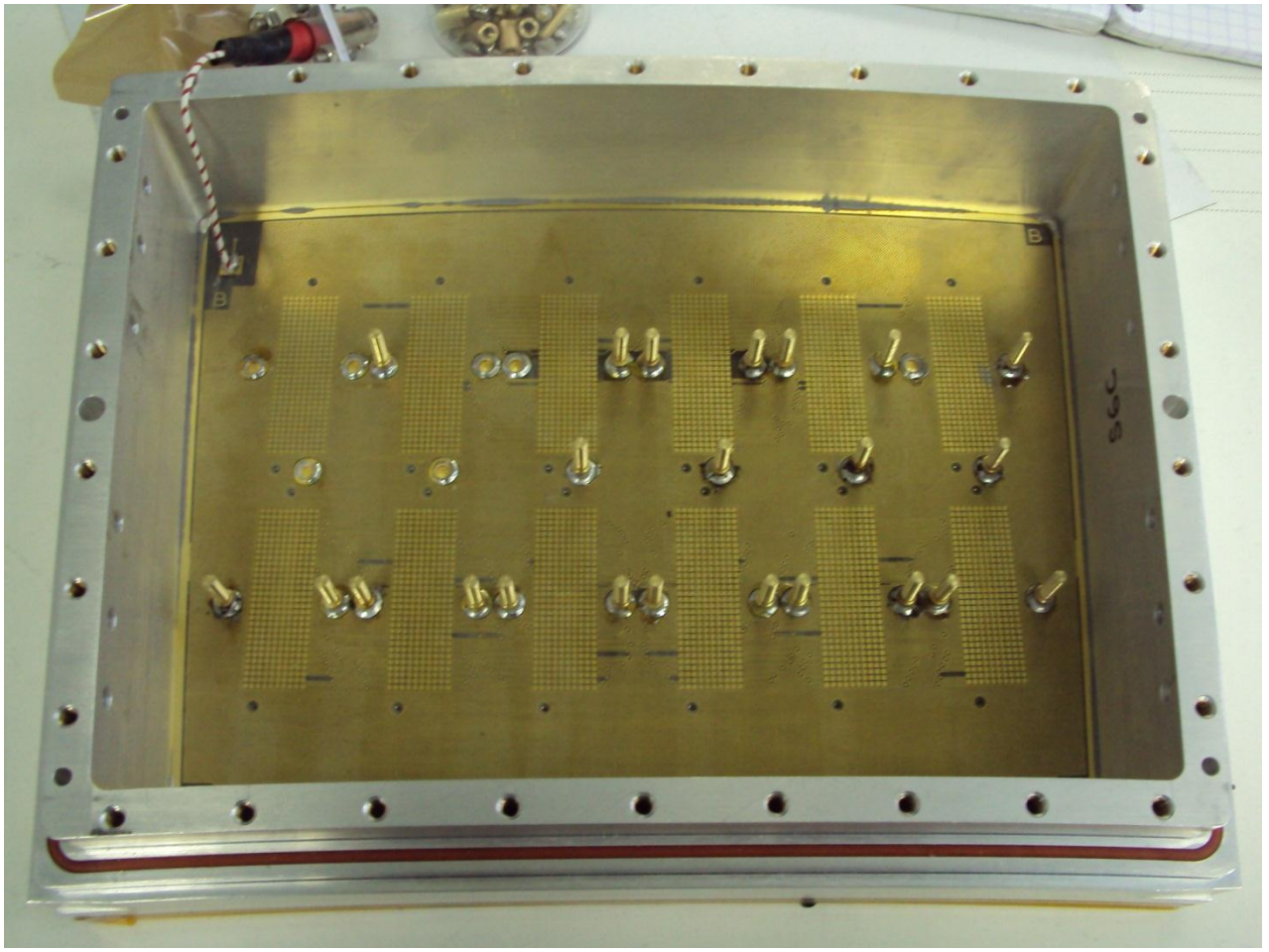
S7H-fem1



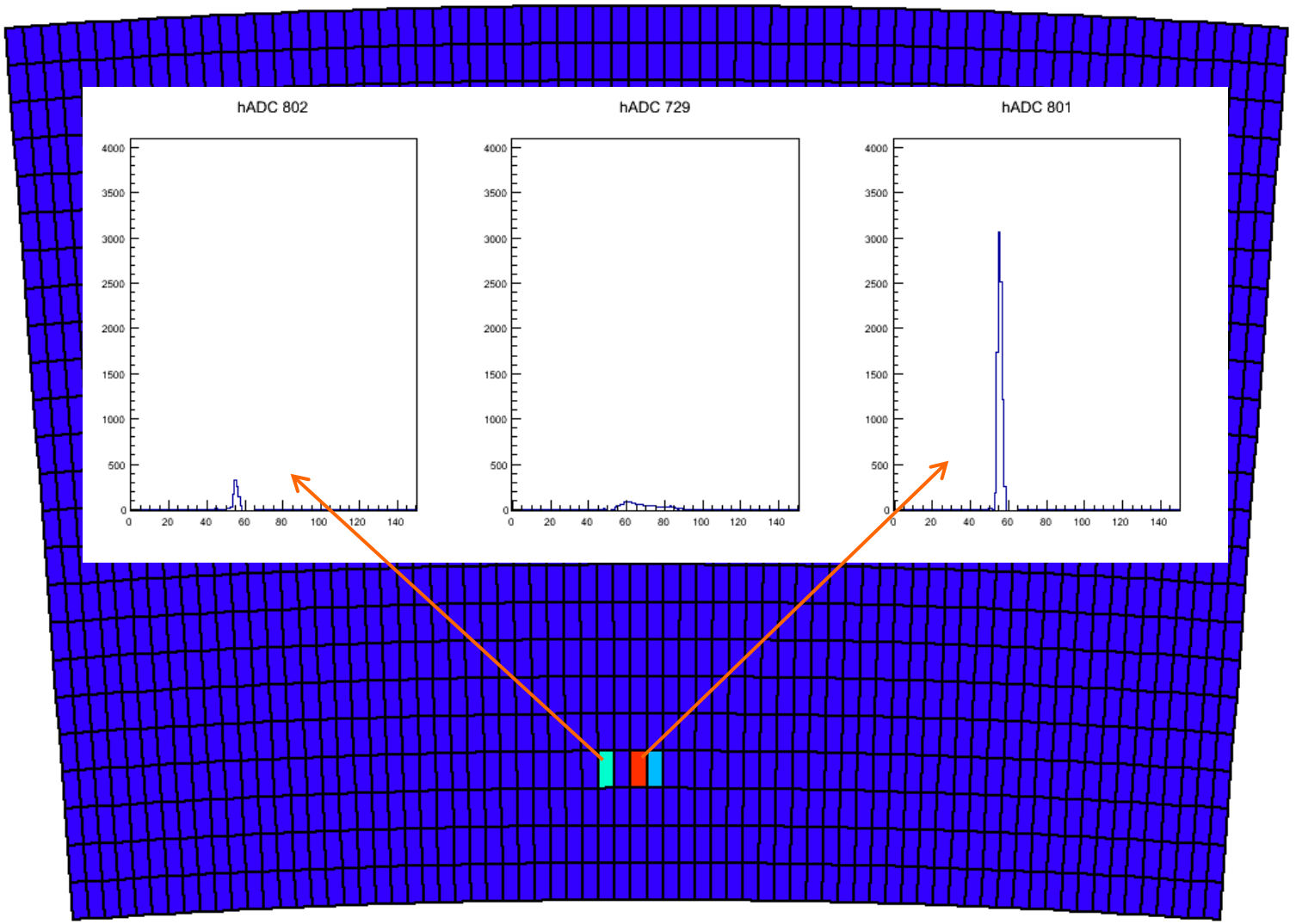
S9A-fem2

Disconnected Pads

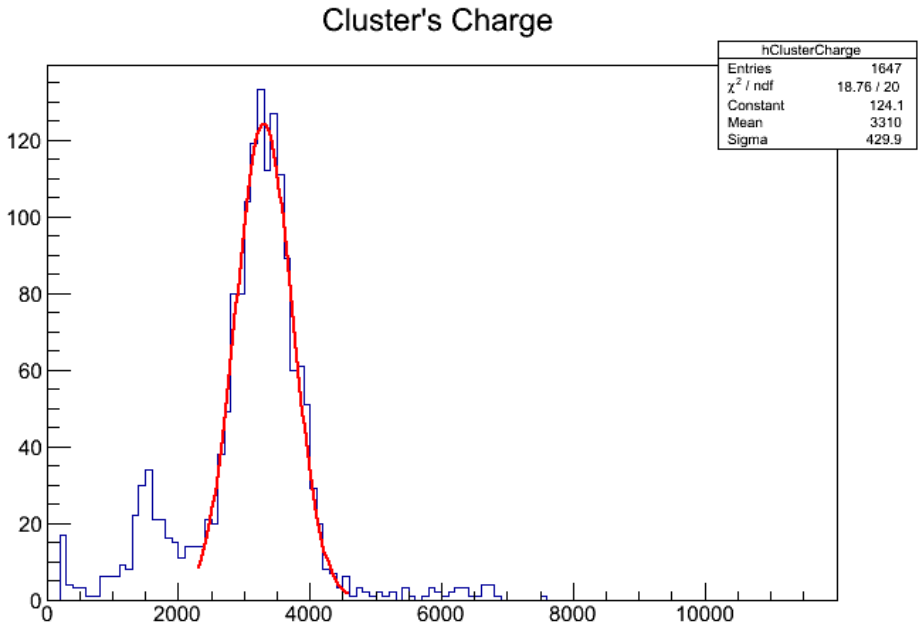




Cross-talk


hADC 802
hADC 729
hADC 801
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140

Energy resolution

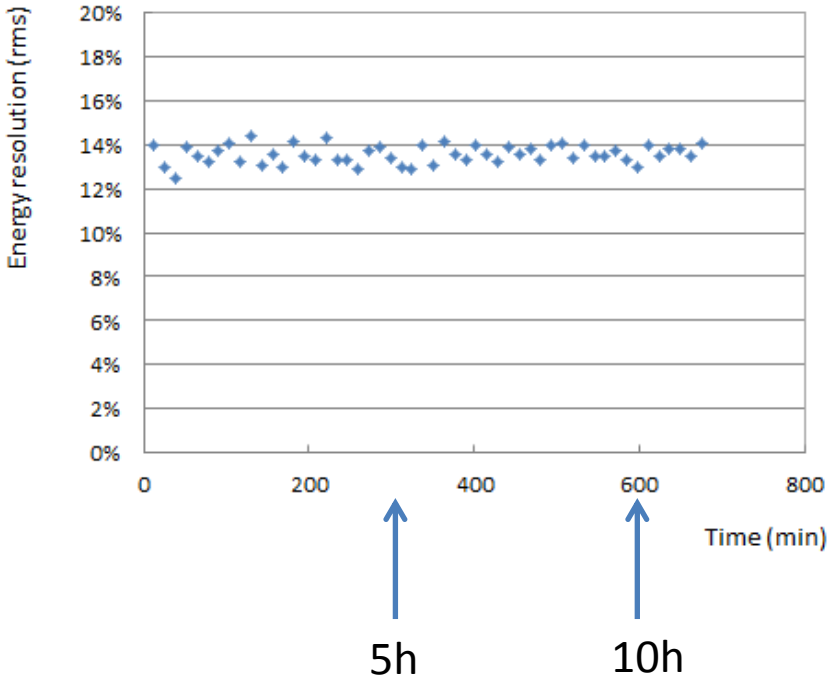


Energy Resolution (preliminary) :~13% rms

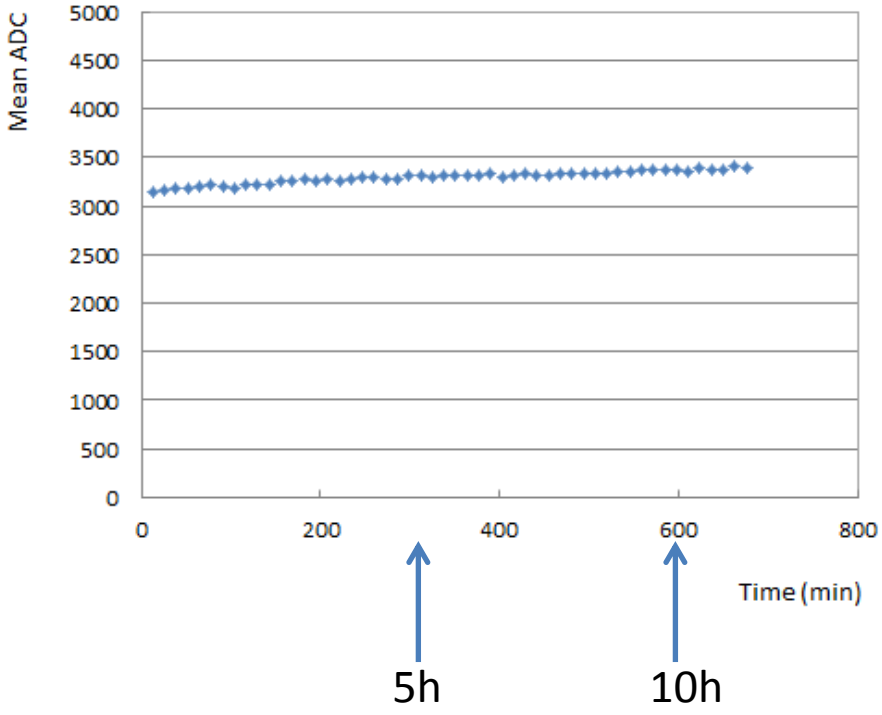
Gain ~2600

(using collimated source)

Stability

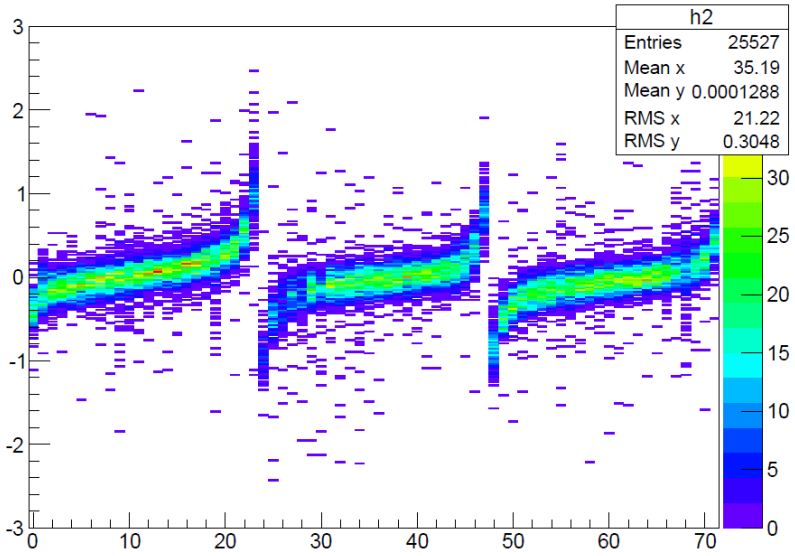


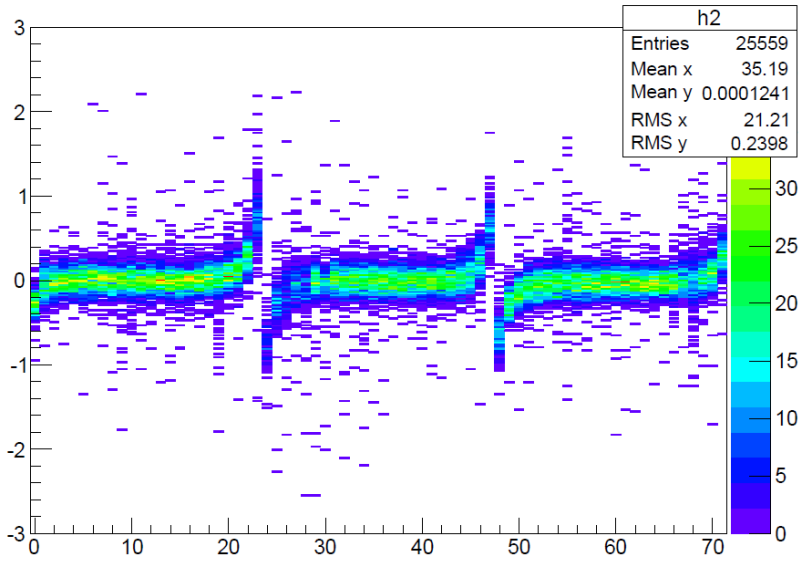
Energy resolution as a function of time



Mean ADC of cluster as a function of time

Six modules (B=1T)





Row Number: 3 x 24 = 72 Displacement in mm

One module has 1726 pads (24 rows x72 columns)

(a): Before alignment

(b): After alignment

$\delta\phi$= 2.9 , 2.1 and 2.2 mrad

δx = 47 µm, -43 µm and -52 µm