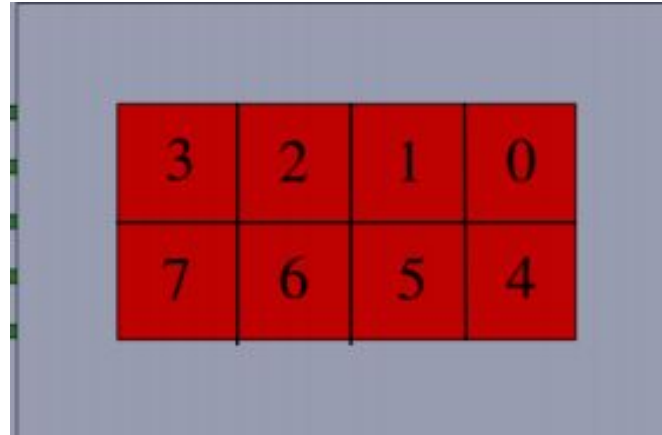


SBU GEM update

Chandan Ghosh

Oct 19, 2018

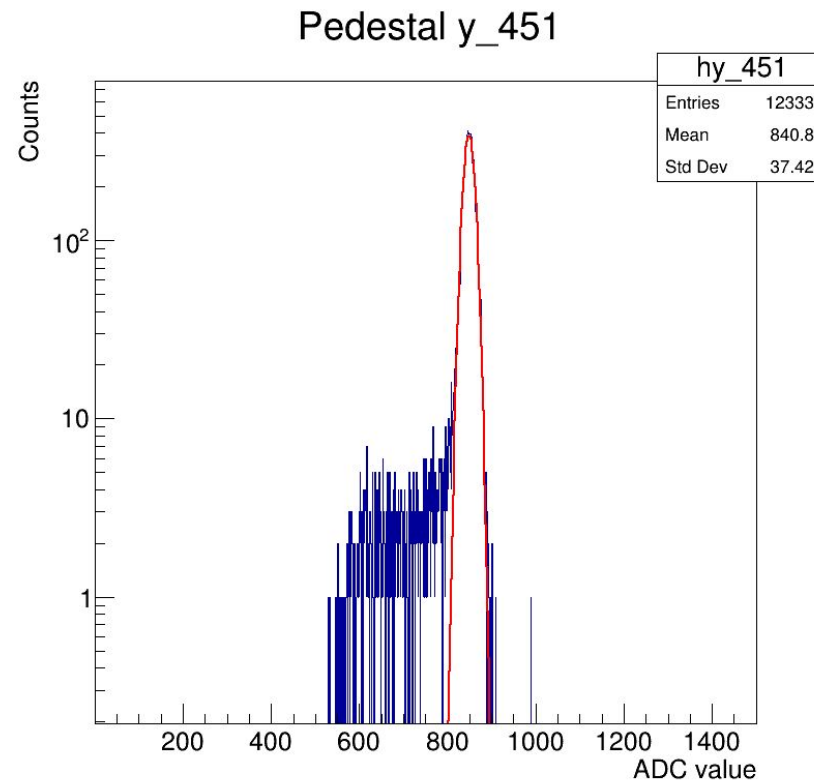
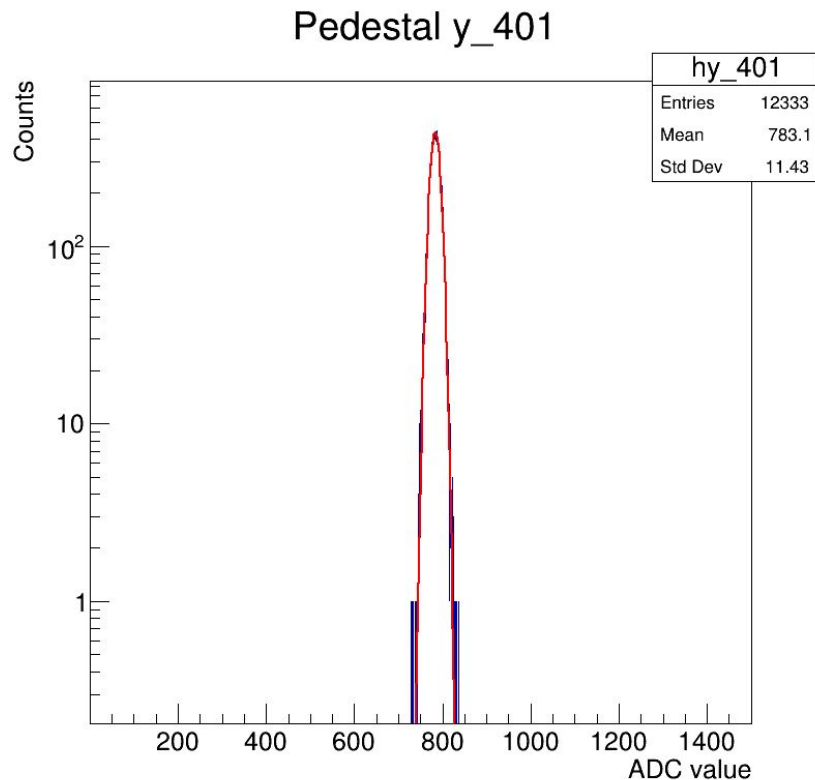
Source position on the detector



3	2	1	0
7	6	5	4

Pedestal

Average of the six samples are plotted (for strip number multiples of 25)
Look at the charge for different source positions;



Integrated charge is less than pedestal - negative pulse

Strips having charge distribution that deviates from Gaussian (like right side picture in the previous slide)

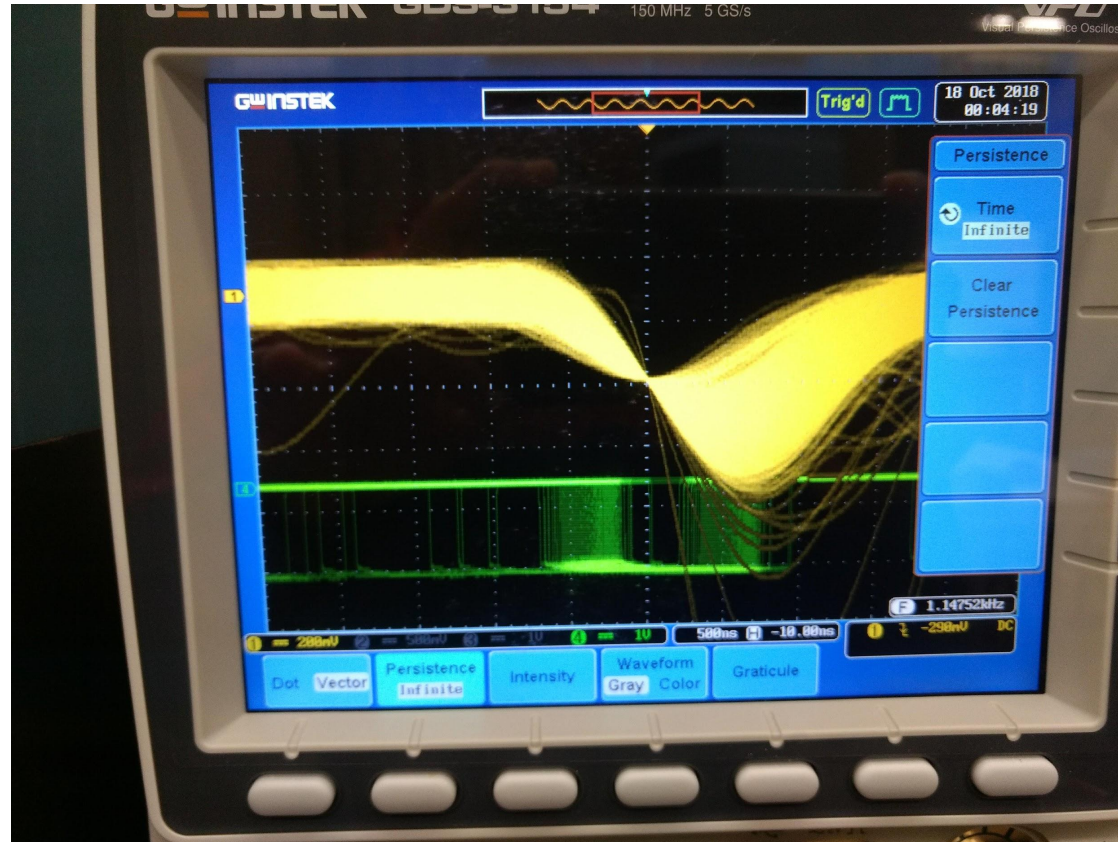
Charge distribution looks similar for either same x or y position (see slide 2 for source position)

Trigger	Pulser	From bottom of the third GEM								
GEM axis	Source in middle	Source (middle)	0	1	2	3	4	5	6	7
Y		326, 301, 251, 176, 151	476, 451, 426	376, 351, 326, 301, 276	251, 226, 151	126, 76, 51, 26	476, 451, 426	401, 376, 351, 326, 276	251, 226, 176, 151	126, 76, 51, 26
x		226, 201, 76	126, 101, 26	126, 101, 51, 26	126, 101, 51, 26	126, 101, 51, 26	251, 226, 151	251, 226, 201, 151	251, 151	251, 151

Jitter in Gate

Yellow - amplified
and inverted signal
from third GEM foil

Green- gate
generated from the
yellow signal



Raw signal from the third GEM foil

