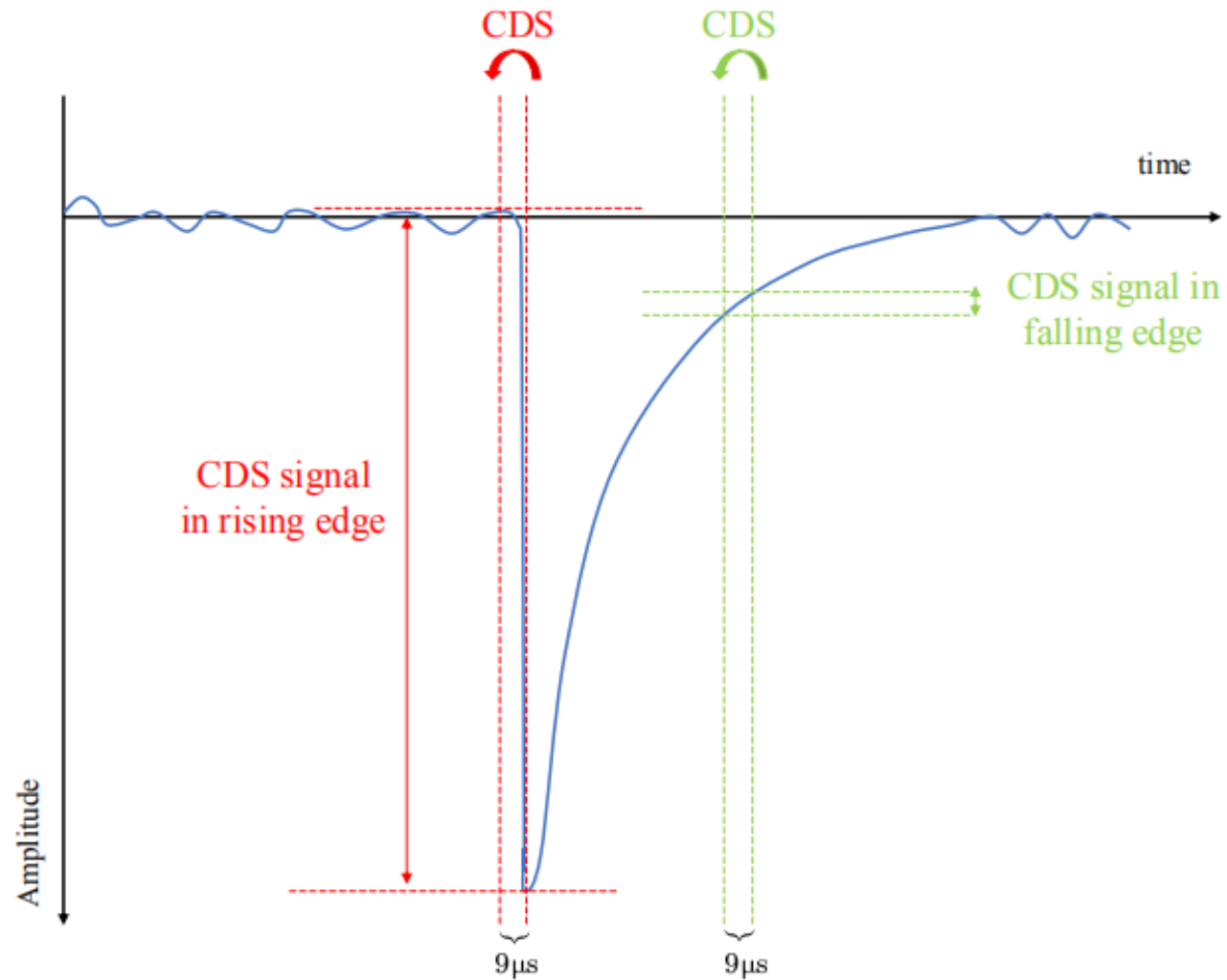


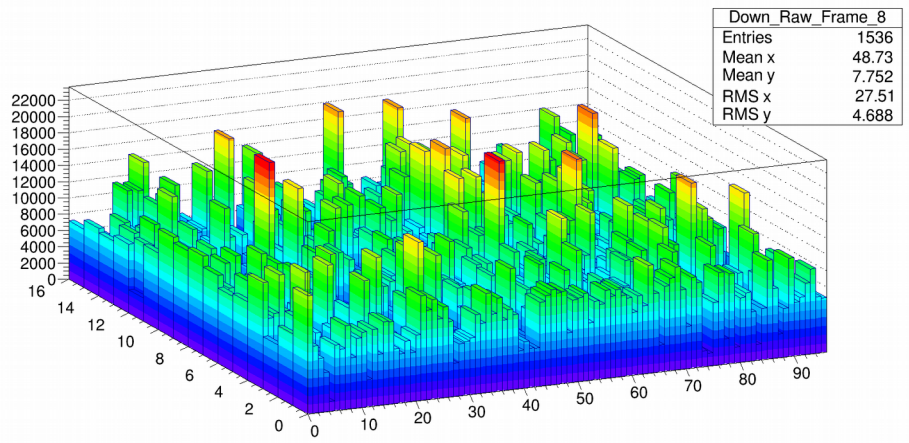
JadePix MatrixB sample test

Tan yuhang from IHEP
2018/08/31

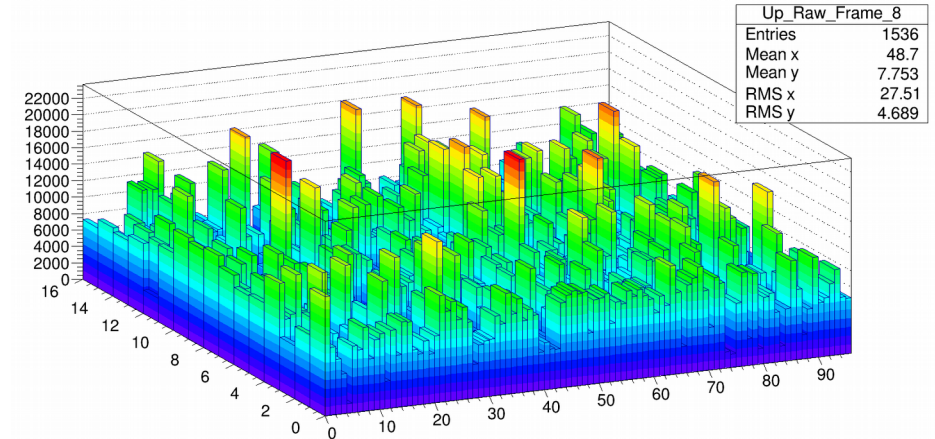
Test principle:



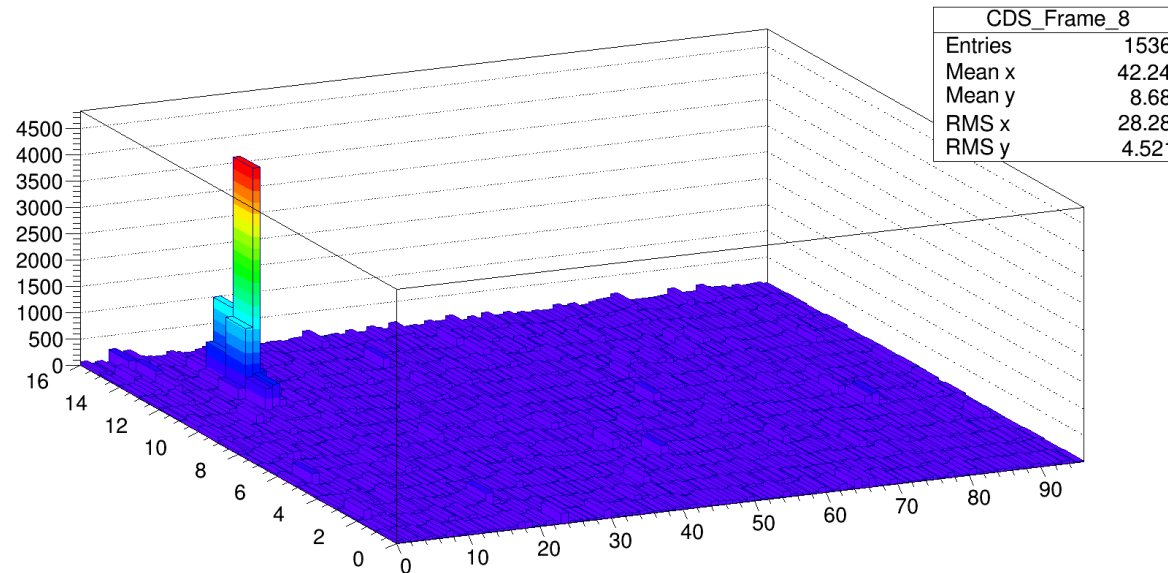
Test:



a) First frame

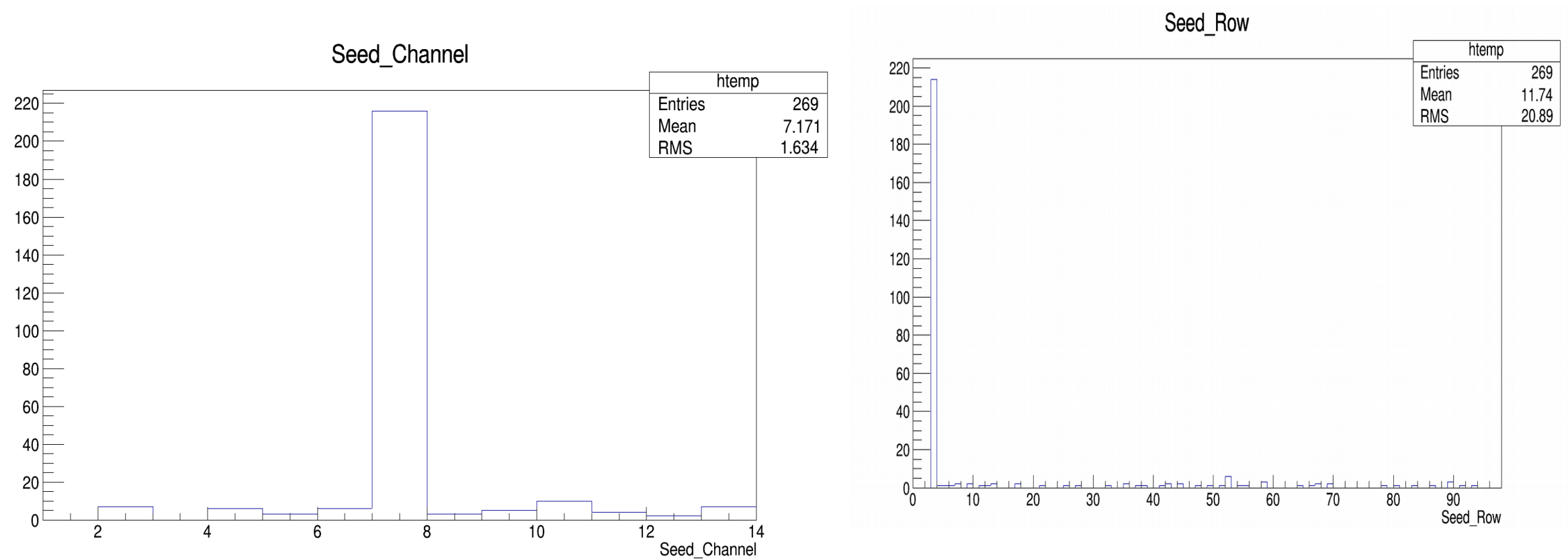


b) Next frame



c) CDS frame

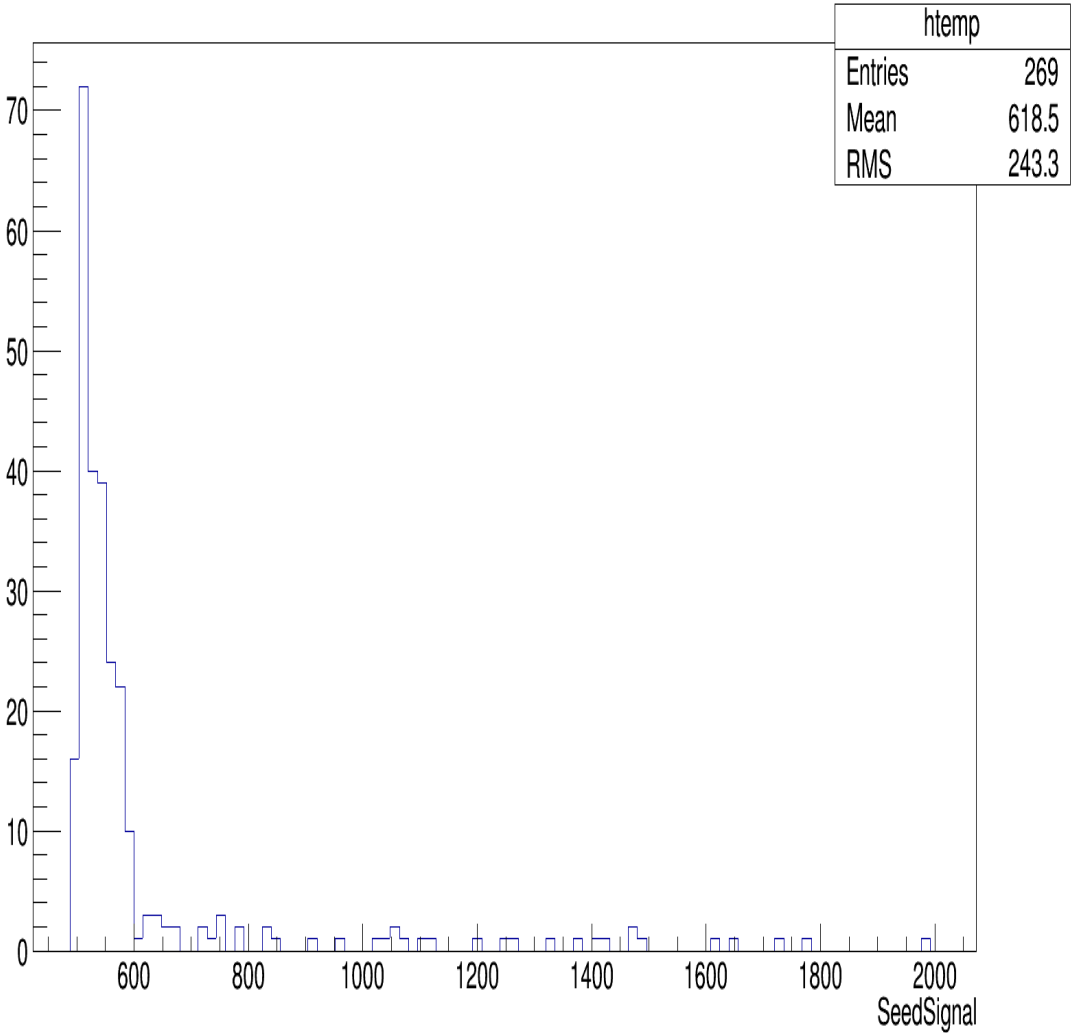
MatrixB (16×96) : hit position



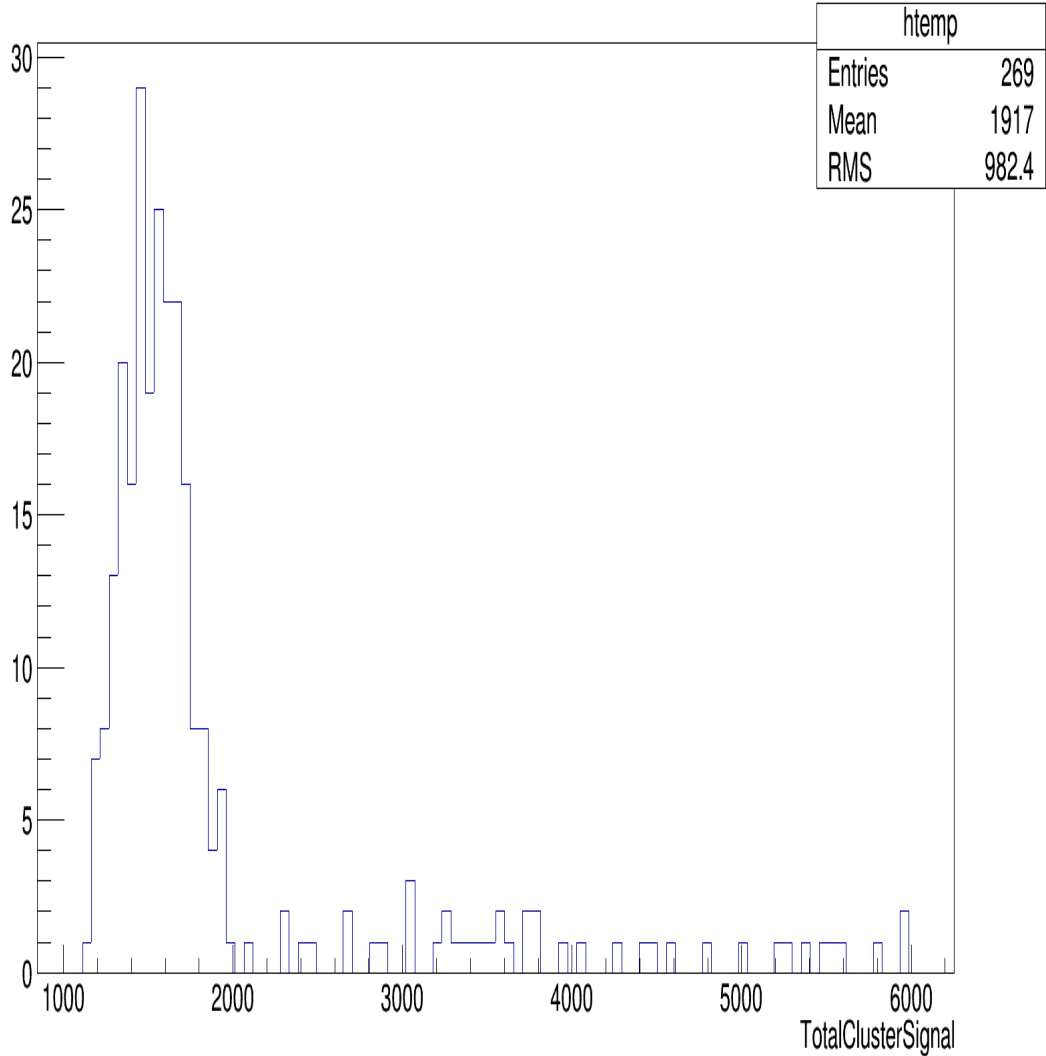
Question: the position almost unchanged.

Seed Signal and Total Cluster Signal:

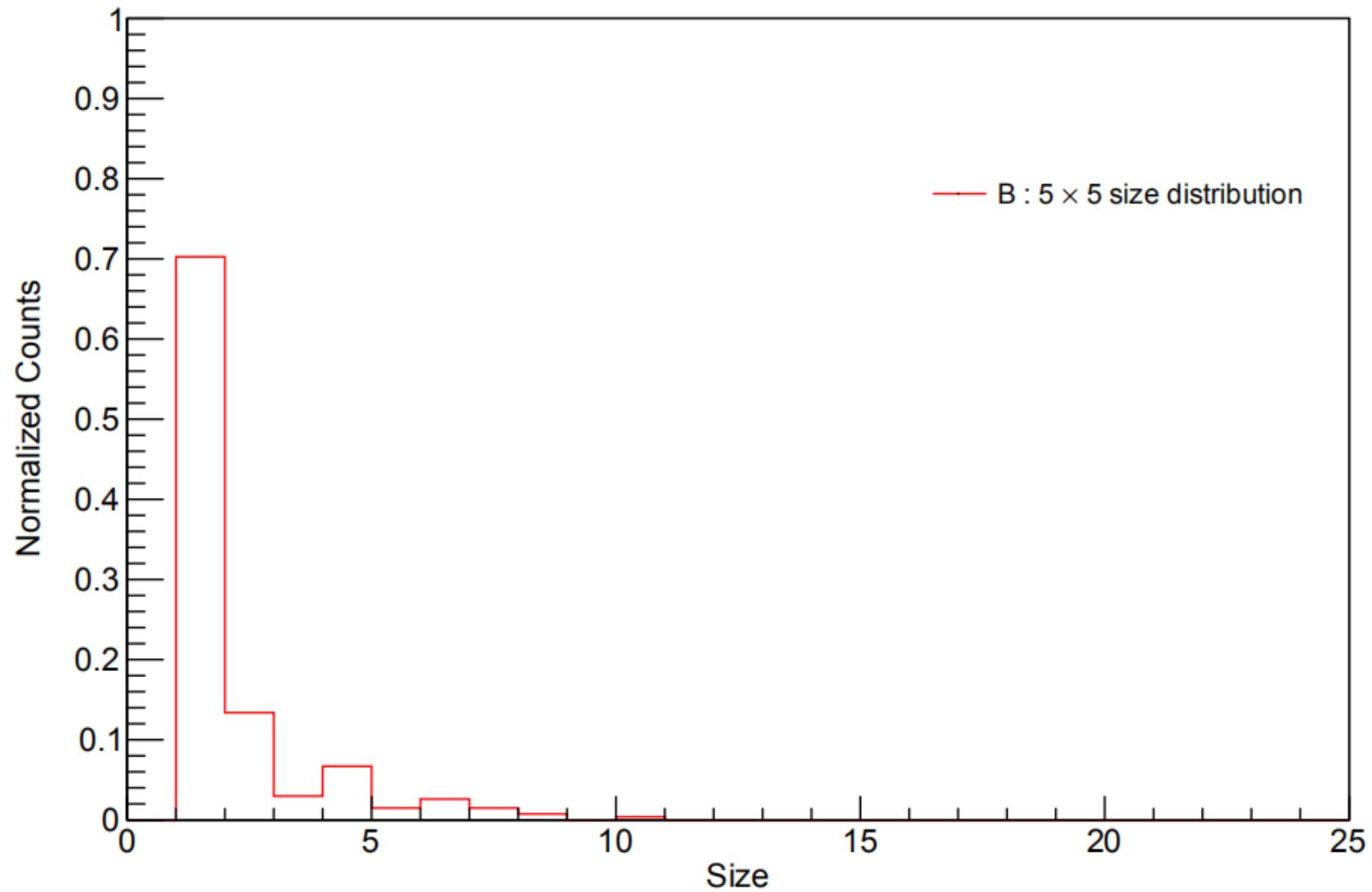
SeedSignal



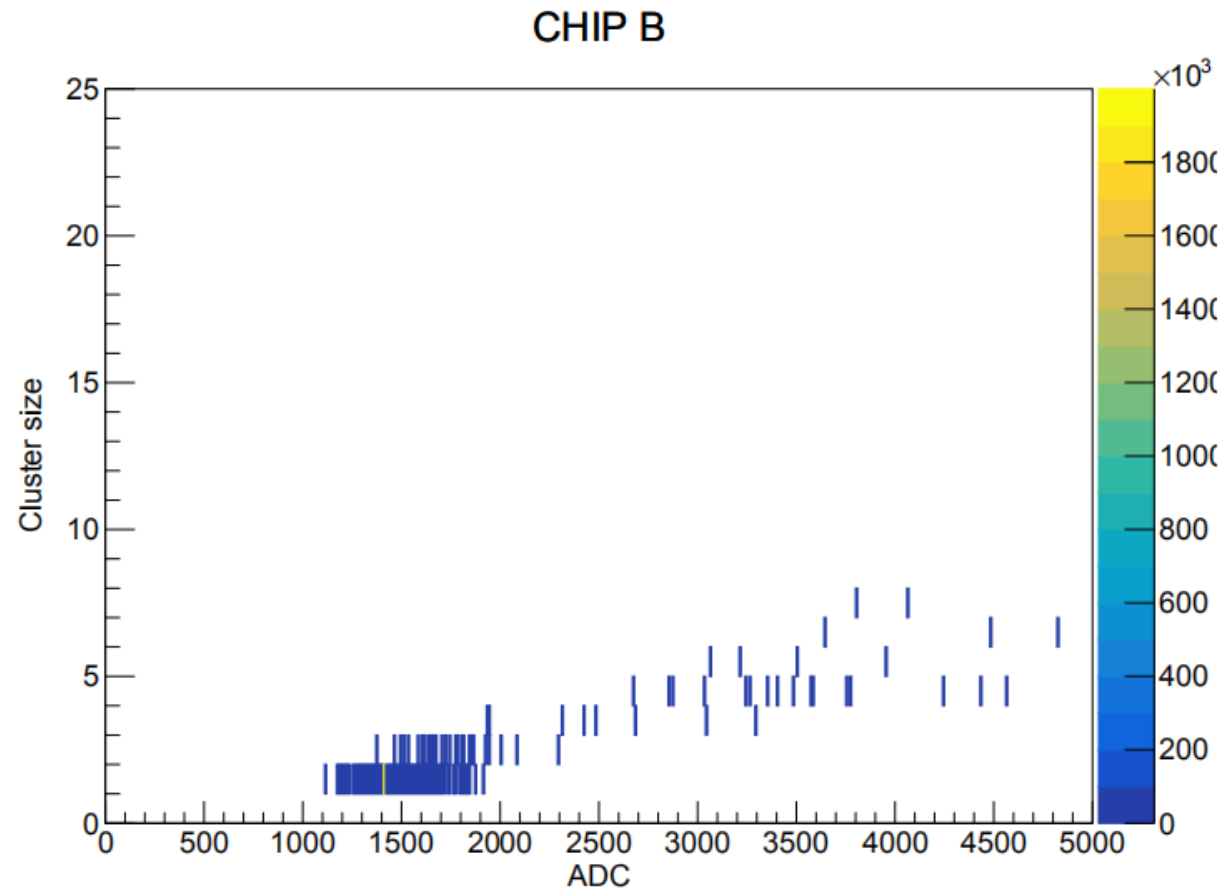
TotalClusterSignal



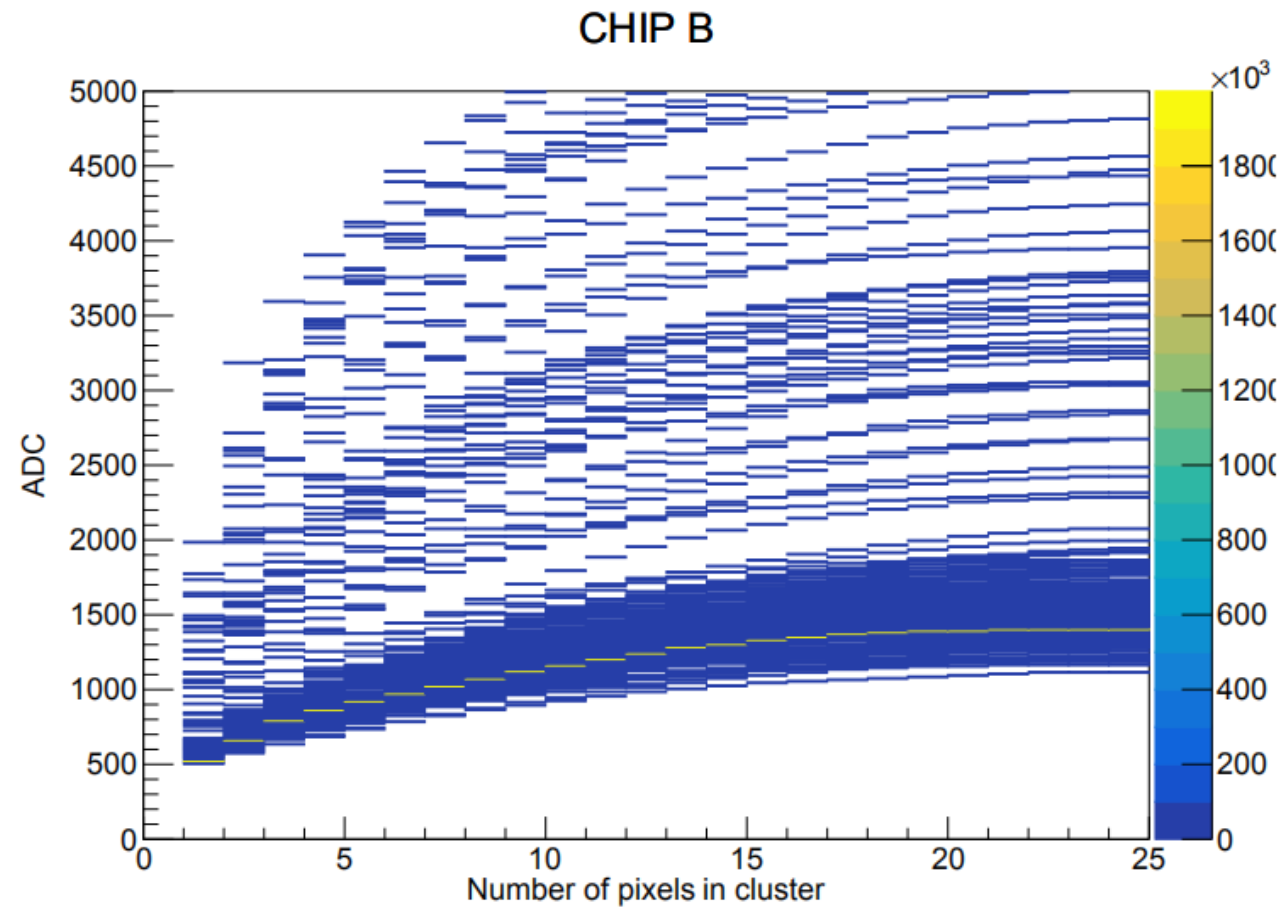
Size: the number of over threshold in (5×5 cluster)



Cluster size vs ADC



ADC VS Number of pixels in cluster



Next: more time to modify code, more data to fit

Question: the data may have a little error. I don't sure.

```
tanyh@cepcvtx:/home/kiuchi$ hexdump -C -s 571774320 -n 3848 WeakFe_CHIPB_NO2_B1_180810160212.df
22149570 aa aa aa aa 80 0f 00 f8 10 c8 12 dc 91 e6 38 cd | .....8.|
22149580 96 da 69 dc d5 d5 0d d2 fc d1 b8 ce 98 da 41 f4 | ..i.....A.|
22149590 85 df f4 e3 d6 df b3 e3 71 c4 17 e0 81 0f 08 f8 | .....q.....|
221495a0 92 df c5 ff f9 12 80 20 45 18 15 13 69 02 49 fc | ..... E...i.I.|
221495b0 34 fa 5c 0f df 10 69 22 22 24 94 08 e1 10 0b 0a | 4.\...i"$.....|
221495c0 71 c4 17 e0 82 0f 10 f8 7a e6 bf ea 67 05 bc 23 | q.....Z...g..#|
221495d0 58 11 98 1c e6 23 c2 08 fd 06 eb 0e d7 09 0e 2f | X....#...../|
221495e0 1e 0b d8 23 d7 fd 33 f9 71 c4 17 e0 83 0f 18 f8 | ...#...3.q.....|
221495f0 2c ed 24 f9 57 0b e8 35 30 08 a0 29 fc fd 52 08 | ,$.W..50..)..R.|
22149600 85 fd 10 16 dc 0b ce 1c 62 00 14 1d f5 09 98 0d | .....b.....|
22149610 71 c4 17 e0 84 0f 20 f8 4a fd 2e f4 43 25 23 26 | q.....J...C%#&|
22149620 84 1c 2c 19 8b fd d6 28 71 03 59 17 3e fc 90 09 | ..,....(q.Y.>...|
22149630 e5 28 93 14 c3 04 60 fe 71 c4 17 e0 85 0f 28 f8 | .(....`q.....(|
22149640 98 e1 ee ff 9f 39 ac 16 7f 0c 60 2c da fc 84 02 | .....9.....|
2214a3c0 08 00 08 00 08 00 08 00 73 09 2f e0 0d 0f dd f8 | .....s./.....|
2214a3d0 ff ff ff ff ff ff 00 00 65 be 54 ef cf 01 d1 04 | .....e.T.....|
2214a3e0 0b 00 0b 00 0b 00 0b 00 0b 00 0b 00 0b 00 0b 00 | .....|
2214a3f0 73 09 2f e0 0c 0f cd f8 ff ff ff ff ff ff 00 00 | s./.....|
2214a400 fd 5a 92 1c 88 fe 48 00 0c 00 0c 00 0c 00 0c 00 | .Z....H.....|
2214a410 0c 00 0c 00 0c 00 0c 00 73 09 2f e0 0d 0f dd f8 | .....s./.....|
2214a420 ff ff ff ff ff ff 00 00 f4 fe b1 fd 5b 01 42 fe | .....[.B.|
2214a430 0d 00 0d 00 0d 00 0d 00 0d 00 0d 00 0d 00 0d 00 | .....|
2214a440 73 09 2f e0 0e 0f ed f8 ff ff ff ff ff ff 00 00 | s./.....|
2214a450 ff ff 80 ff 2f fb 78 fc 0e 00 0e 00 0e 00 0e 00 | ..../.x.....|
2214a460 0e 00 0e 00 0e 00 0e 00 73 09 2f e0 0f 0f fd f8 | .....s./.....|
2214a470 ff ff ff ff ff ff 00 00 | .....|
```

The experiment of laser :

1.A simple Laser Sample test about the chip's energy reponse

Question: I don't know how to acquire data, and we should measure what about energy reponse

2.Scan one pixel

Question: the aim,and how to know the position?