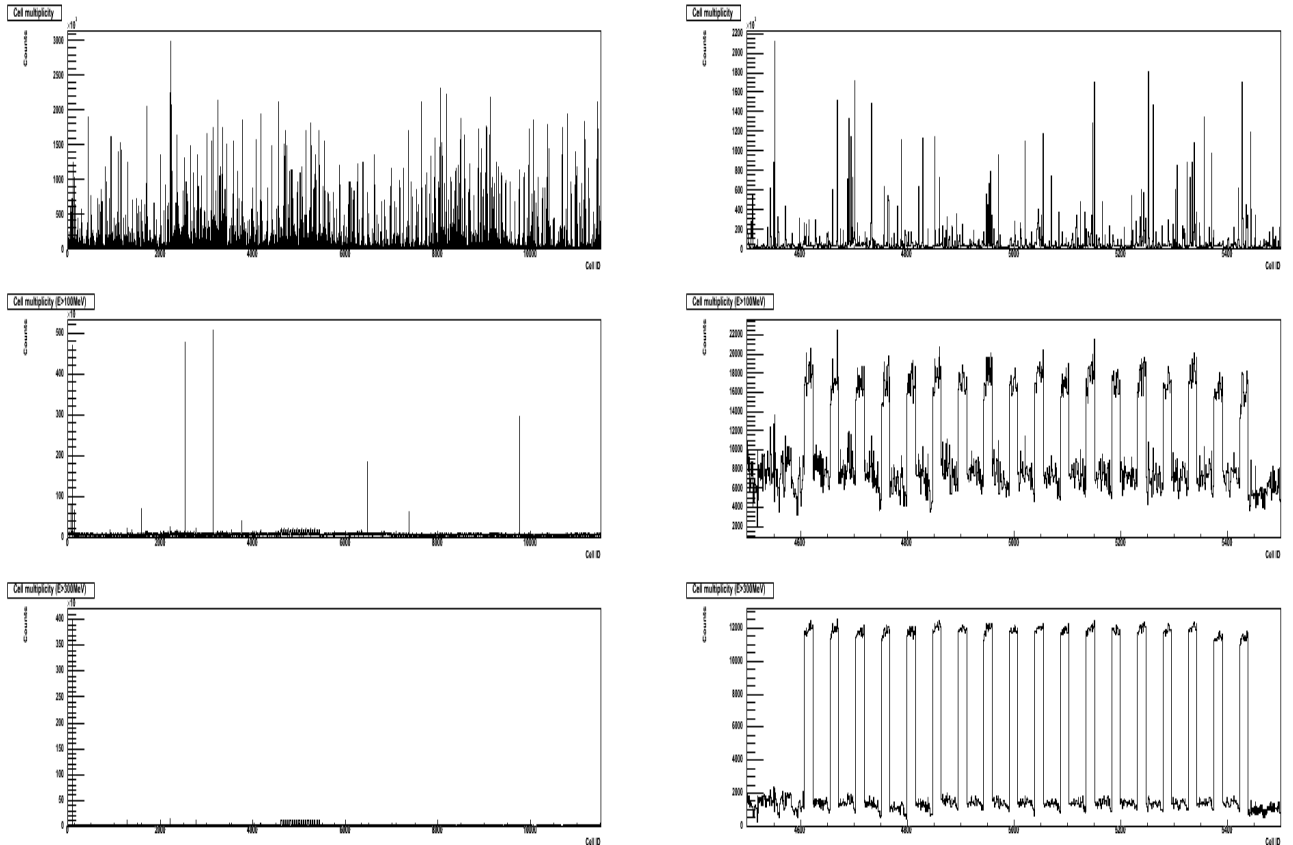


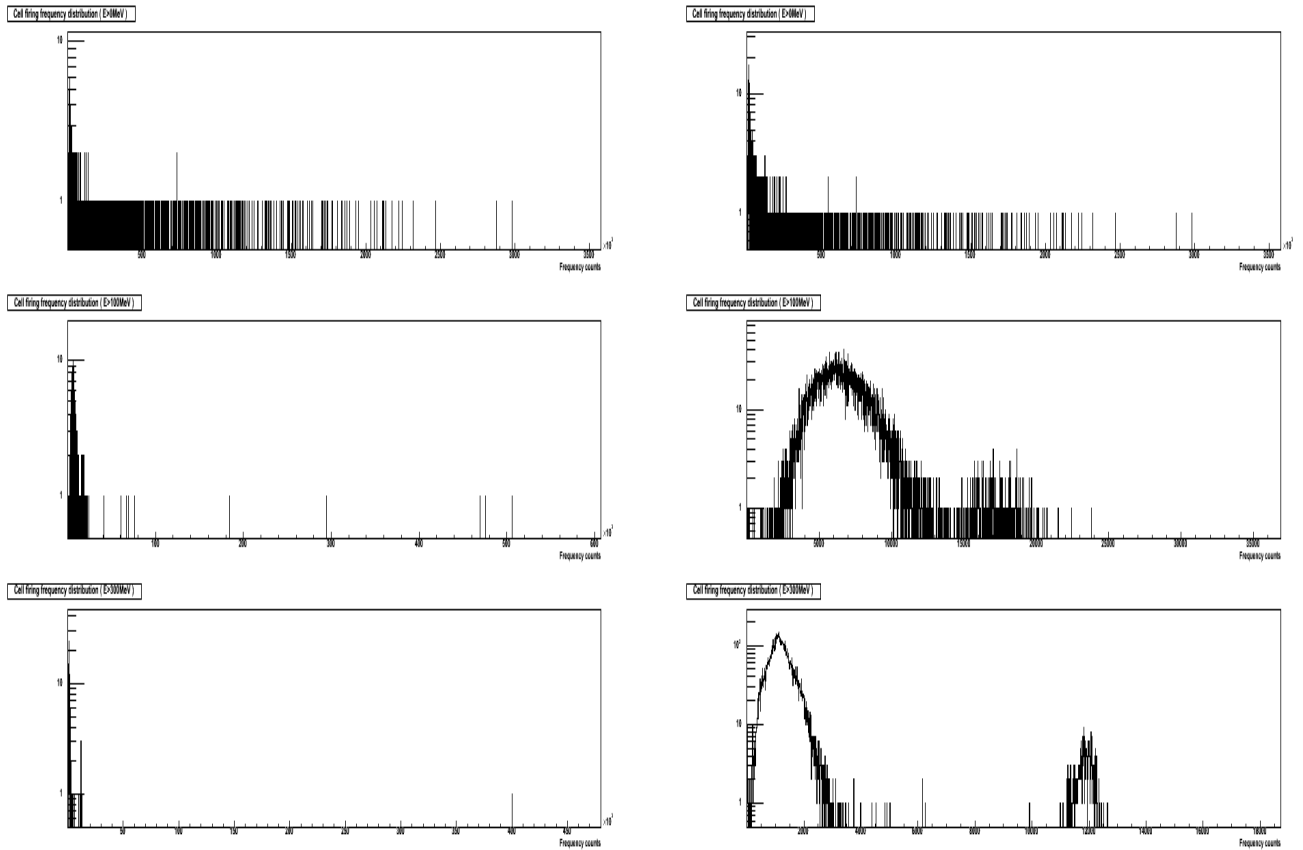
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## Offline hot channel map

- Cell firing frequency counting:
  - ◆ Left plot from top to bottom: cell firing frequency counts with energy cut 0 MeV, 100 MeV, 300 MeV
  - ◆ Right plot from top to bottom: zoom-in of the left plot between cell Id 4500-5500. This plot is used to illustrate the oscillating structure.

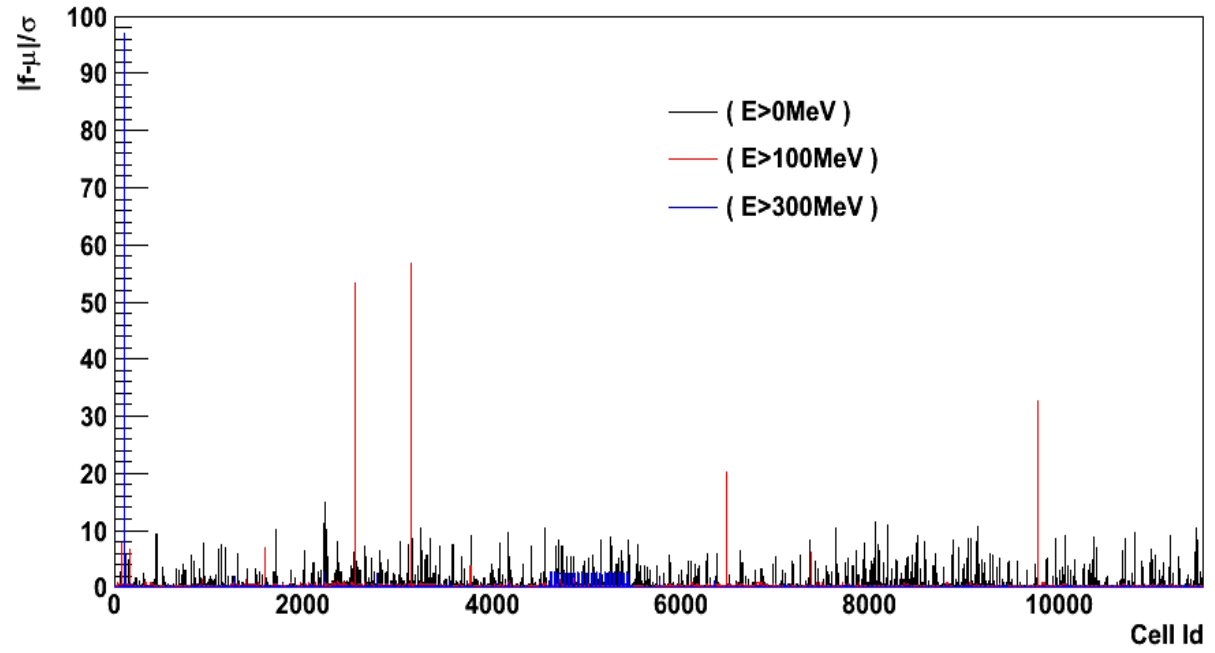


- Cell firing frequency distribution: this plot is filled with the bin contents of the plots above.
  - ◆ Left plot from top to bottom: cell firing frequency distribution with energy cut 0 MeV, 100 MeV, 300 MeV
  - ◆ Right plot from top to bottom: zoom-in of the left plot, and the second small bump comes from the oscillating structure.



- Distribution of  $|f-\mu|/\sigma$ , here  $f$  stands for the firing frequency counts of each cell and  $\mu$ ,  $\sigma$  are the mean and standard deviation of the cell firing frequency distribution. The cut for hot channel is  $|f-\mu|/\sigma > 5$ .
  - ◆  $E > 0\text{MeV}$  -> 122 hot channels
  - ◆  $E > 100\text{MeV}$  -> 9 hot channels -> 74, 103, 152, 1595, 2540, 3135, 6481, 7371, 9769 (**The list will be used in my analysis**)
  - ◆  $E > 300\text{MeV}$  -> 1 hot channel -> 103

**Hot channel candidate ( E>0MeV )**



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Topic revision: r3 - 2011-07-13 - RongrongMa



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