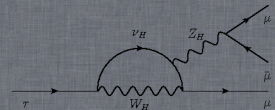
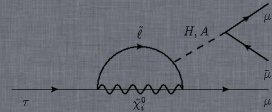
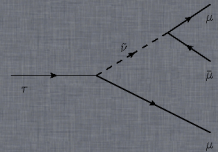
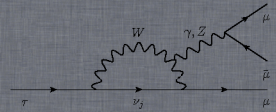


Quo vadis INMAPS?

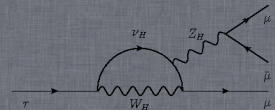
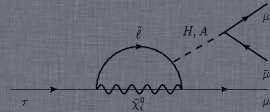
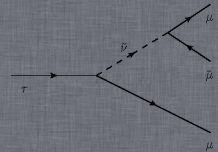
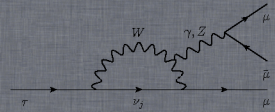
Alberto Lusiani, Marcin Chrzęszcz

26th November 2012



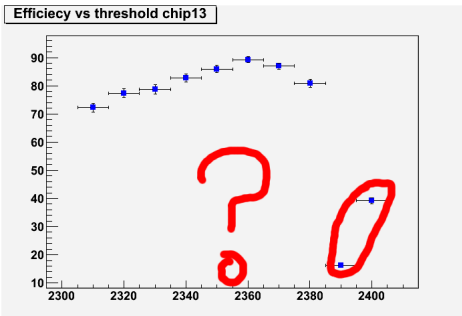
Efficiency drop
Eff vs. thr.
Explanation
Residual Fits

Resolution drop

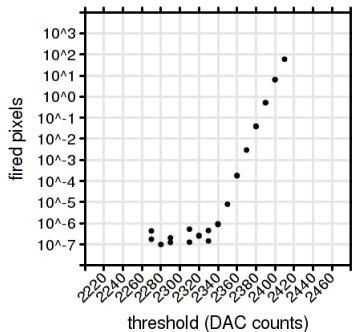


Eff vs. thr

All plots are for CHIP13. (Lets understand one at the time)

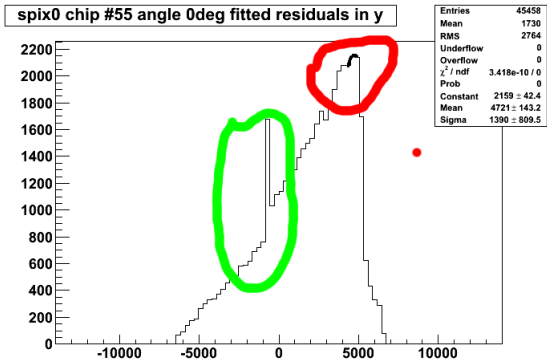


chip #13, fired pixels vs. thr



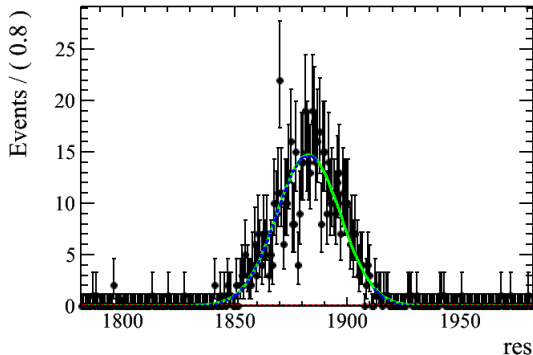
Explanation

- Last year we had 0 noise. for resolution χ^2 fit was used.
- Implemented binned(unbinned not that easy) maximum likelihood.
- Assuming Gauss + Exp.



Explanation

- For low in agreement with χ^2 (comparing mean+sigma).
- We can extract the noise from signal when calculating the efficiency.
- Solving problem of fitting fitting fake noise peak:
 - 1 do fit to run where there is 0 noise
 - 2 make the high noise runs after it search in the same neighbourhood.

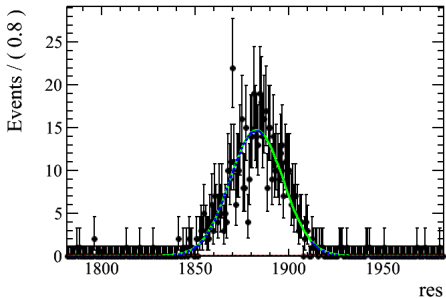


X view.

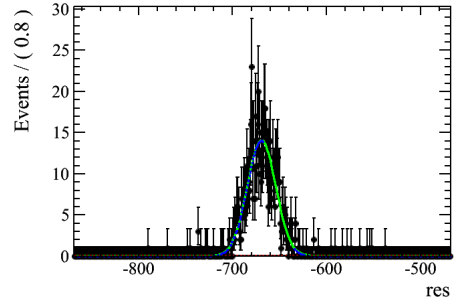
Residual Fits, run 4289, Thr=2330

All plots are for CHIP13. (Lets understand one at the time)

X view



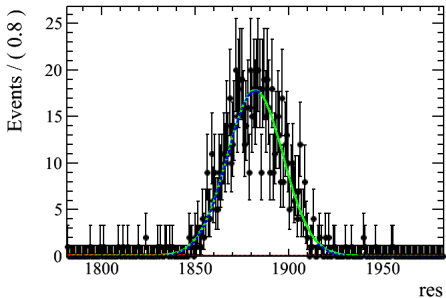
Y view



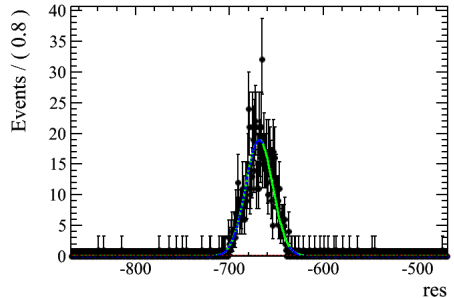
Residual Fits, run 4291, Thr=2340

All plots are for CHIP13. (Lets understand one at the time)

X view



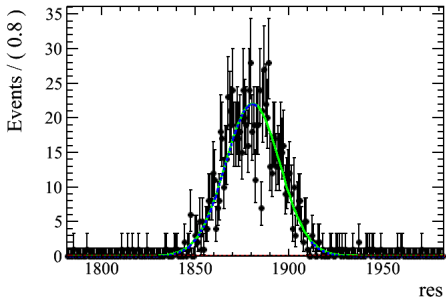
Y view



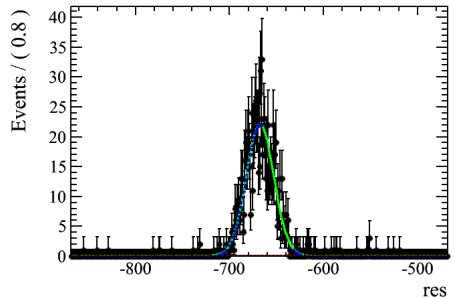
Residual Fits, run 4293, Thr=2350

All plots are for CHIP13. (Lets understand one at the time)

X view



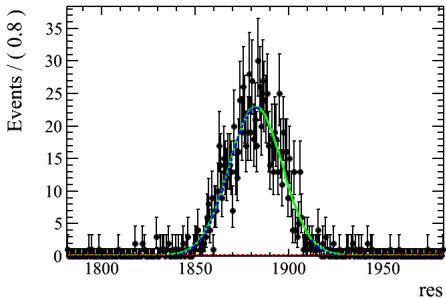
Y view



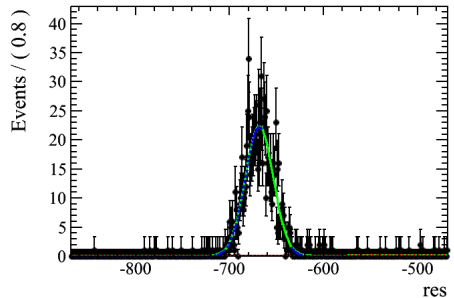
Residual Fits, run 4295, Thr=2360

All plots are for CHIP13. (Lets understand one at the time)

X view



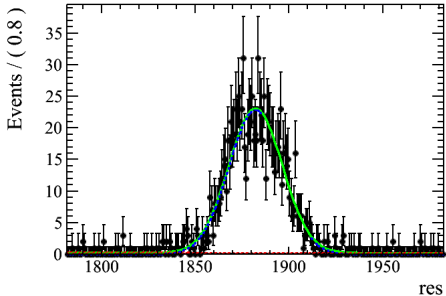
Y view



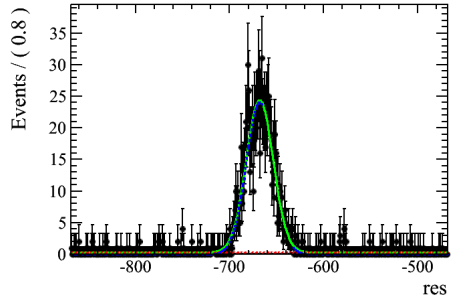
Residual Fits, run 4297, Thr=2370

All plots are for CHIP13. (Lets understand one at the time)

X view



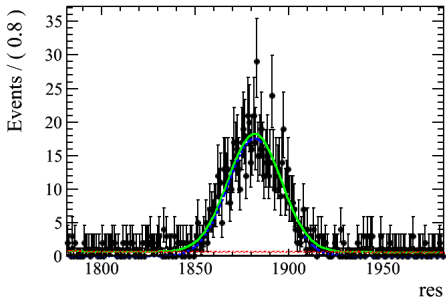
Y view



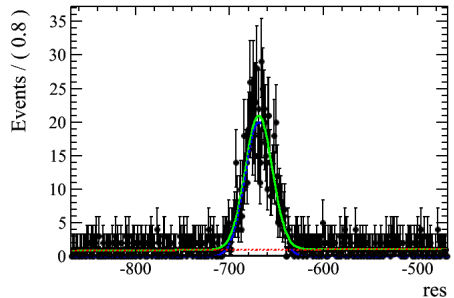
Residual Fits, run 4299, Thr=2380

All plots are for CHIP13. (Lets understand one at the time)

X view



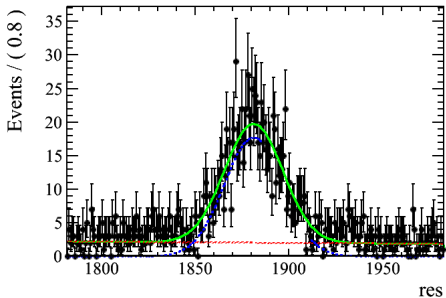
Y view



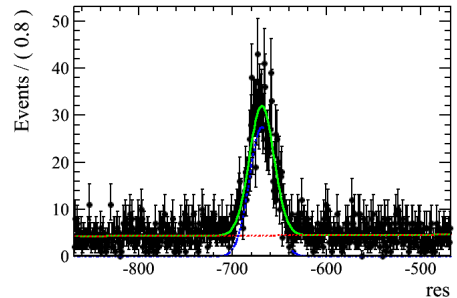
Residual Fits, run 4301, Thr=2390

All plots are for CHIP13. (Lets understand one at the time)

X view



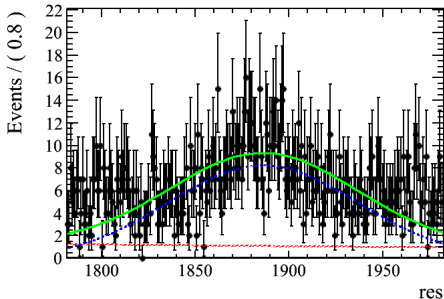
Y view



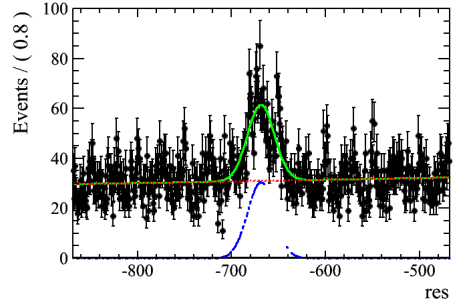
Residual Fits, run 4303, Thr=2400

All plots are for CHIP13. (Lets understand one at the time)

X view



Y view



What is going on?!?!

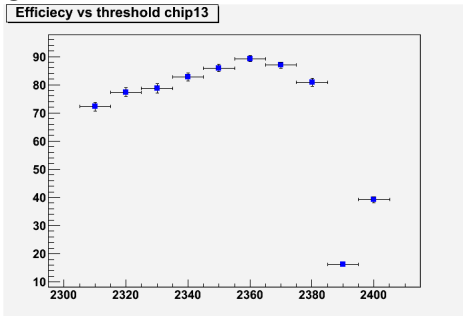
We are losing him...

Where does the increase of resolution come from?

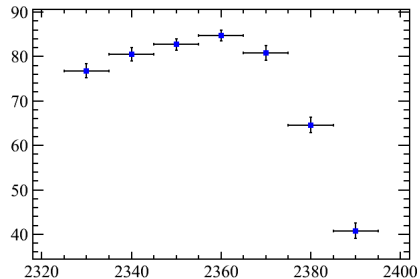
Investigated Guliana's theory that the pixels fire in a row. On Friday I send around instructions how to use the SbtViewer. To speed things up I made a video: [LINK](#)

Eff vs. threshold

OLD

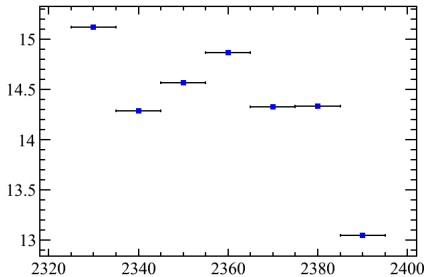


NEW



Resolution vs threshold

X



Y

