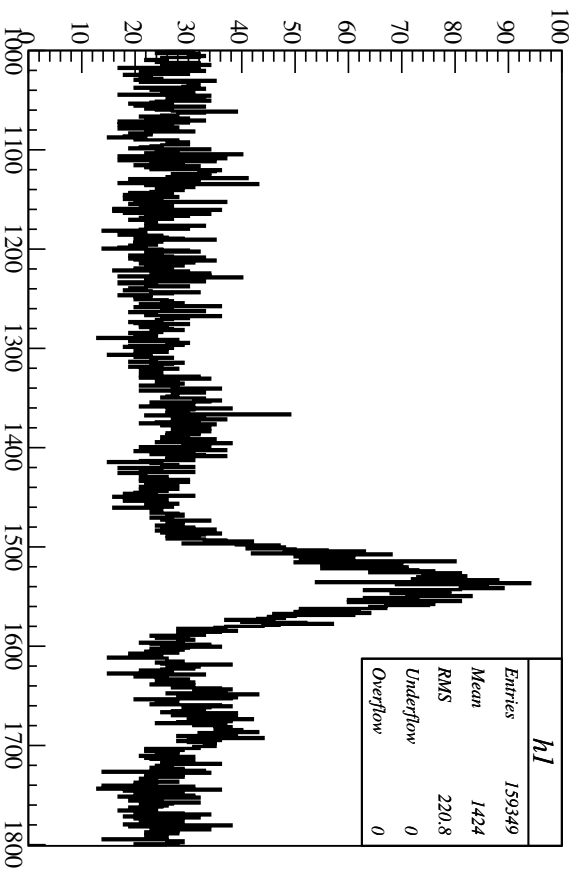


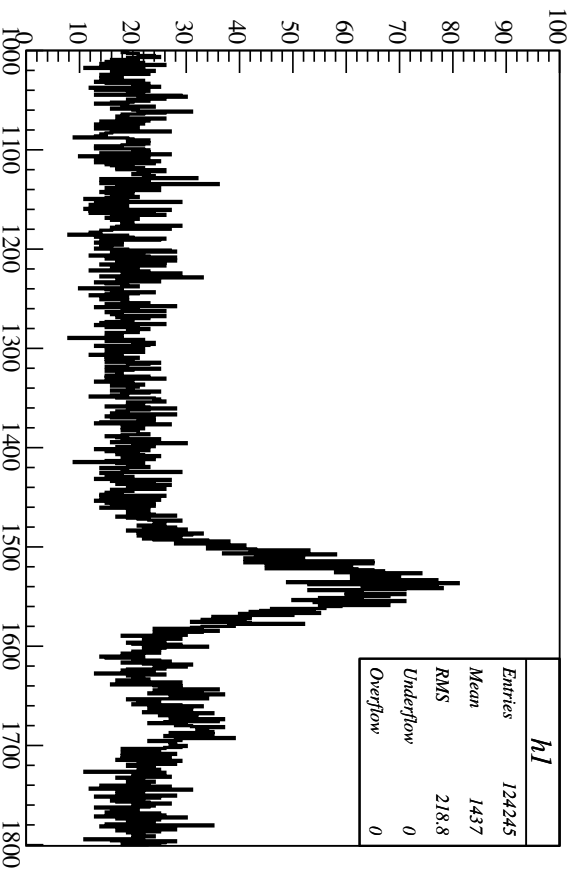
sdd2 out not kstop



data : run 519-522

sdd2 has a peak shape noise near Ti Ka peak. We consider this noise comes from the reset pulse cross talk of sdd1. Actually this peak can be removed by using reset scaler (REF) of sdd1.

sdd2 out not kstop (sdd1 reset = 0)

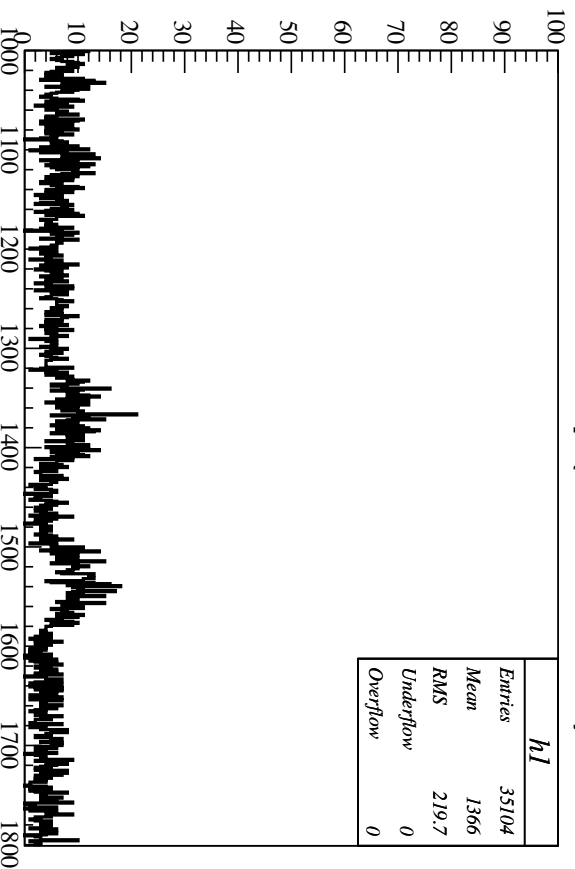


top figure is a histogram of TiKa region of sdd2. We can see the noise.

middle figure is a cut histogram by the condition “sdd1 reset scaler has no hit”

down figure is the complement of the middle figure.

sdd2 out not kstop (sdd1 reset > 0)

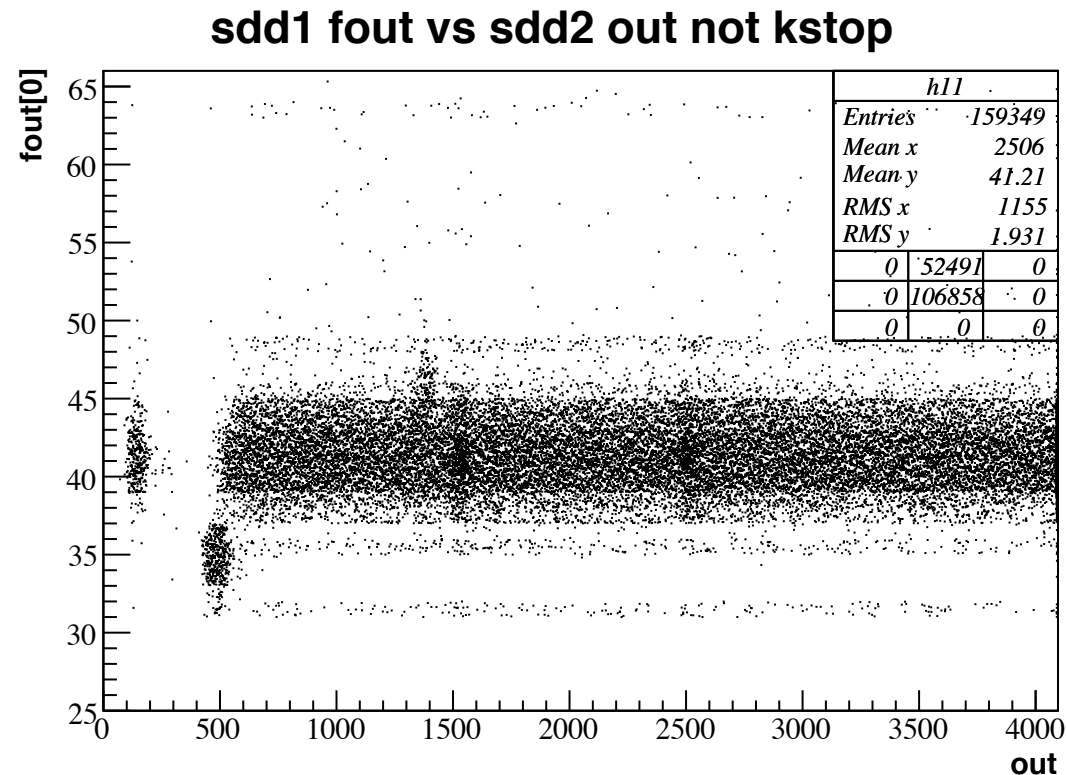


the coincided events are about 20% of all.

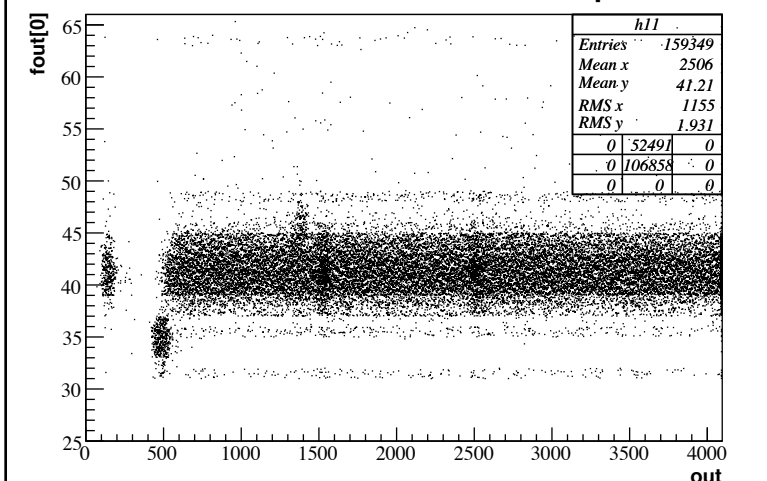
What is a normal event ?

All coincidence events with the reset of next sdd cause noise ?

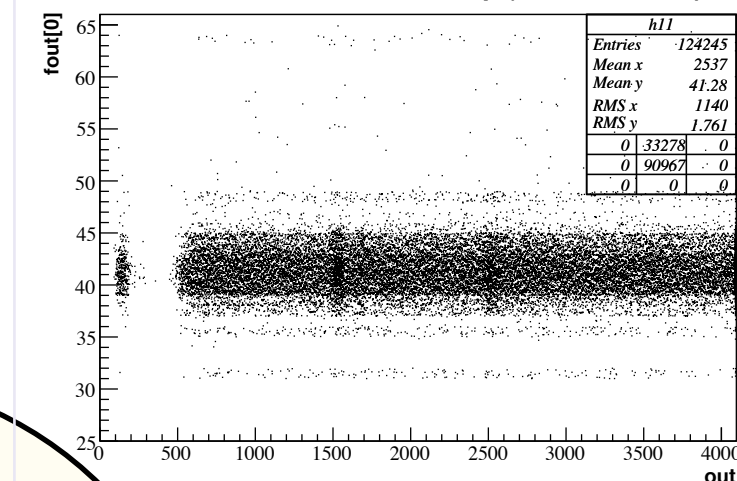
-> checked by the correlation of next fout and out



sdd1 fout vs sdd2 out not kstop



sdd1 fout vs sdd2 out not kstop (sdd1 reset = 0)

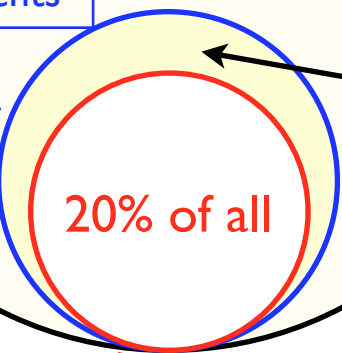


sdd2 not kstop
159349 events

sdd1 reset = 0
124245 events

sdd1 reset > 0
35104 events

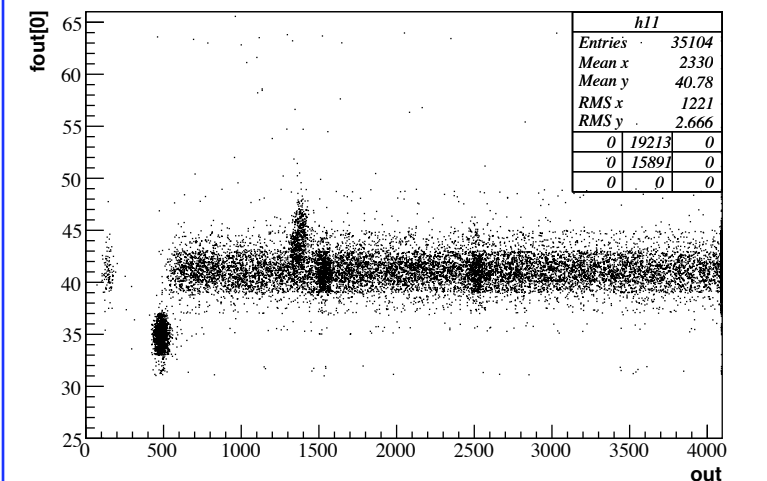
sdd1 reset > 0
&& upper = 0
2411 events



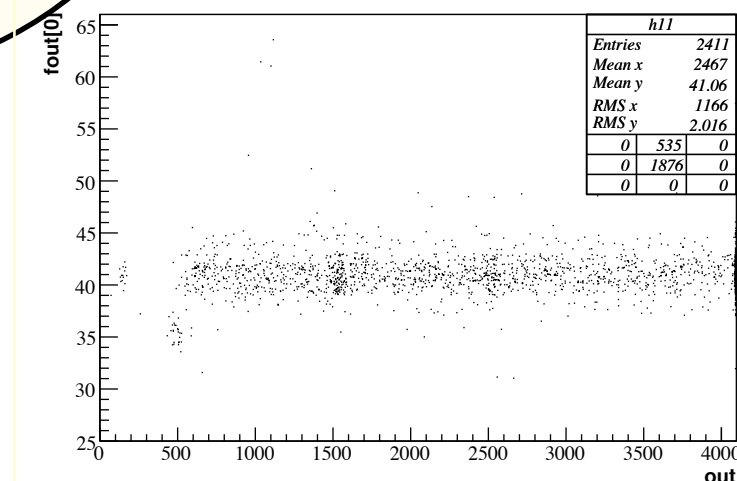
20% of all

sdd1 reset > 0
&& upper > 0
32693 events

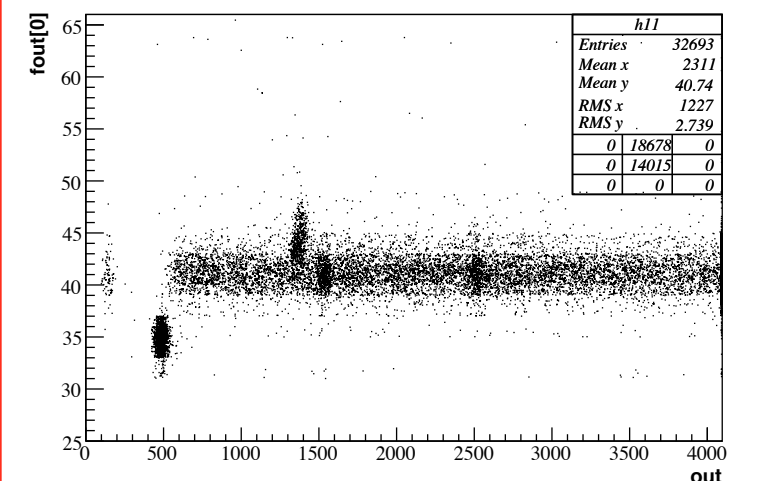
sdd1 fout vs sdd2 out not kstop (sdd1 reset > 0)



sdd1 fout vs sdd2 out not kstop (sdd1 reset > 0, upper = 0)



sdd1 fout vs sdd2 out not kstop (sdd1 reset > 0, upper > 0)

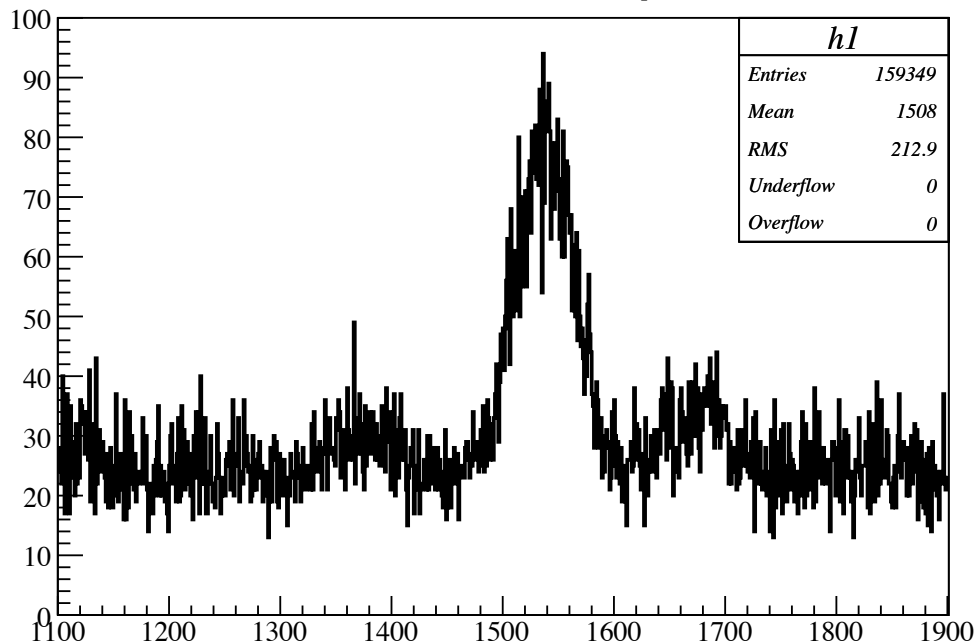


Conclusion

- next sdd's reset and upper events cause the noise
 - > these events are about 20 % for sdd2

before cut

sdd2 out not kstop



after cut

sdd2 out not kstop with scaler cut

