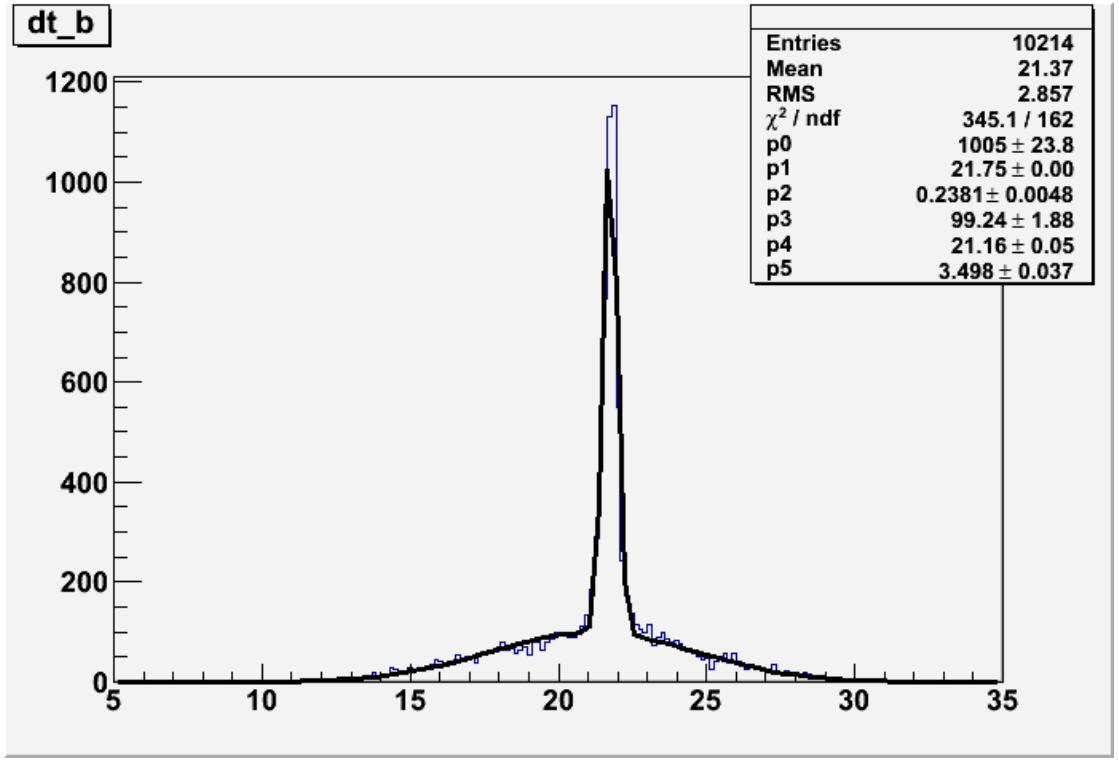
20160817
TOF counter test status

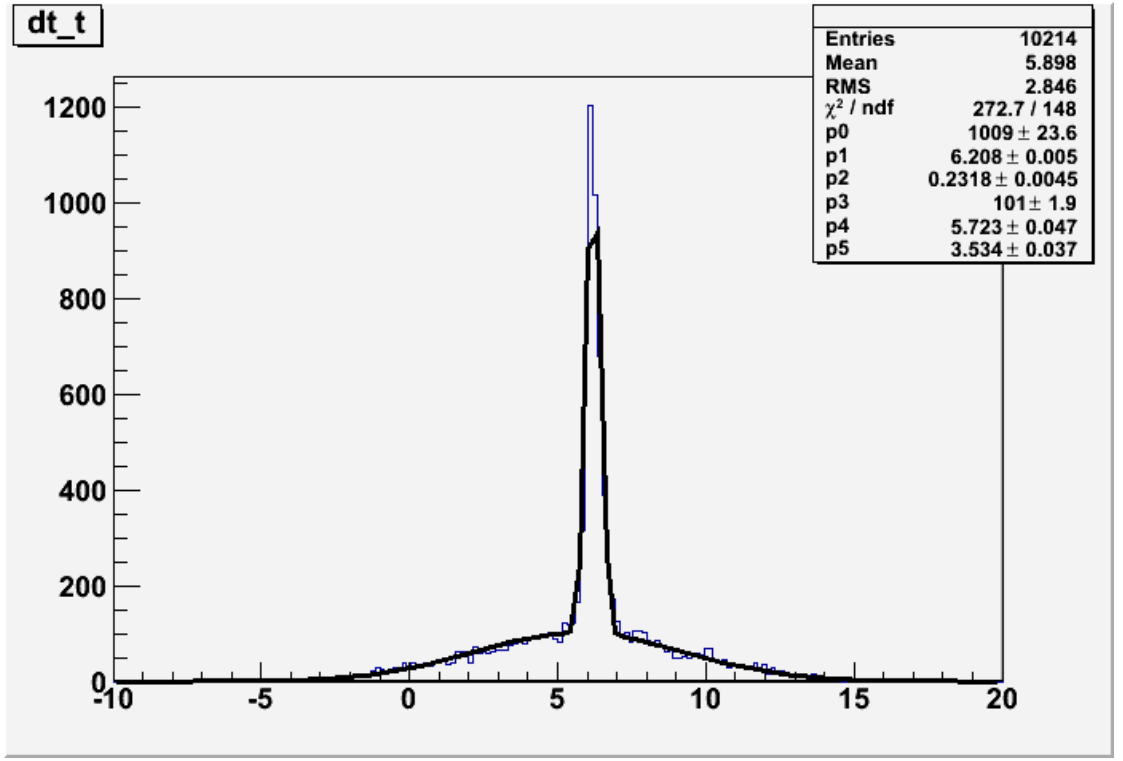
Aram lee

1. Improvements
2. Mean time analysis
3. To do

about Broad Gaussian

last meeting, there were broad peaks in dt_b and dt_t histograms.

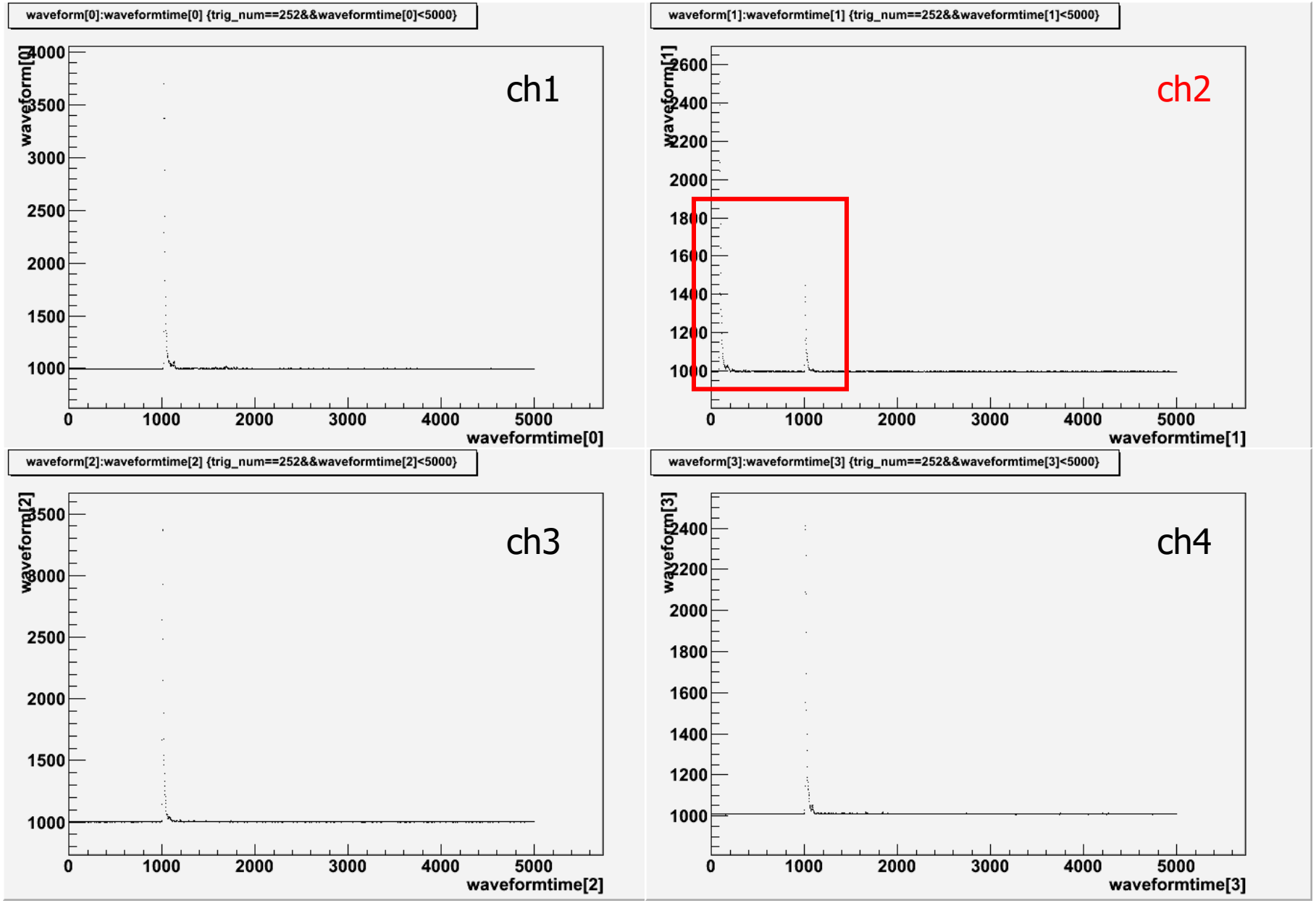




(triggers at center)

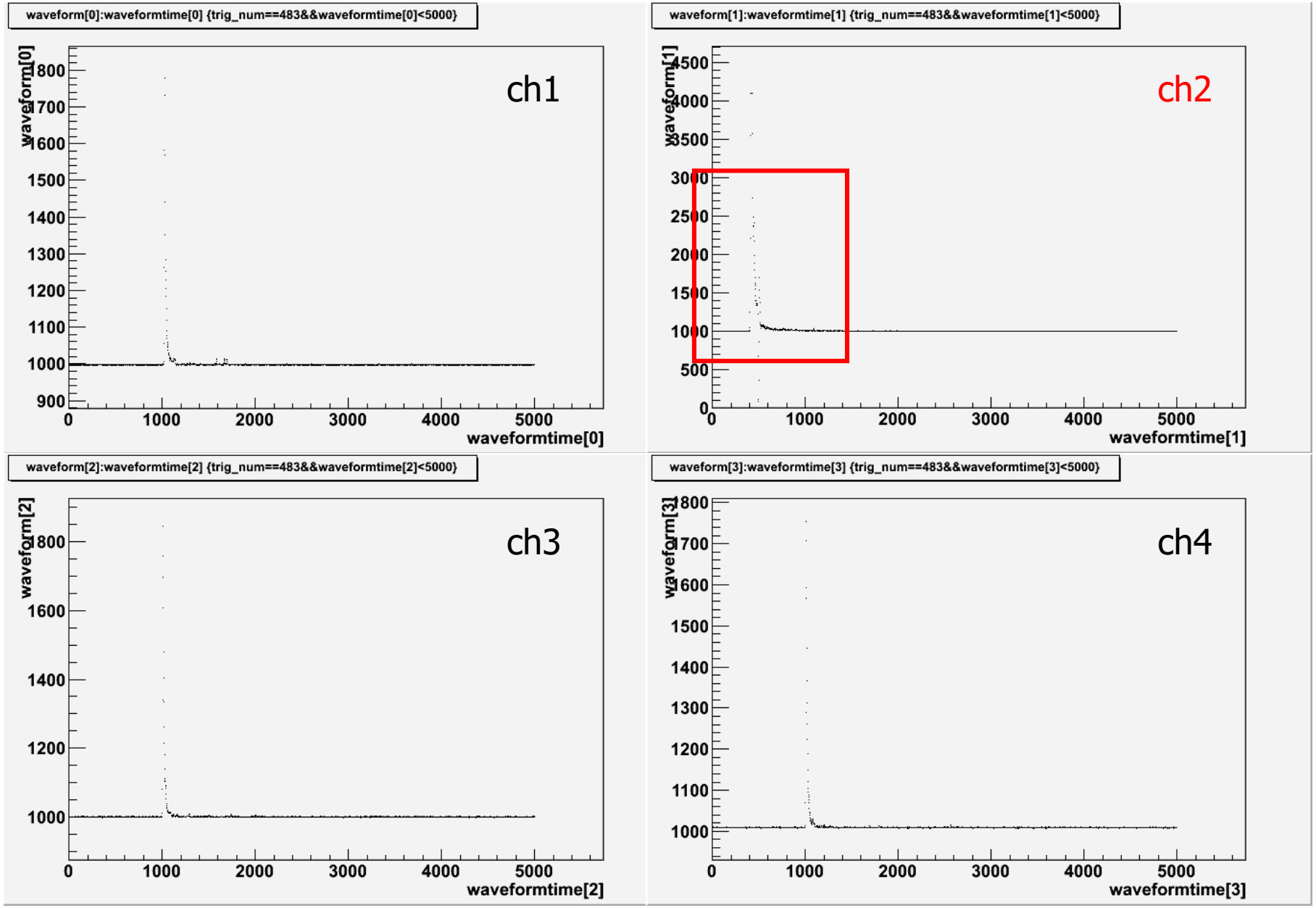
<Raw data>

Double peak exists

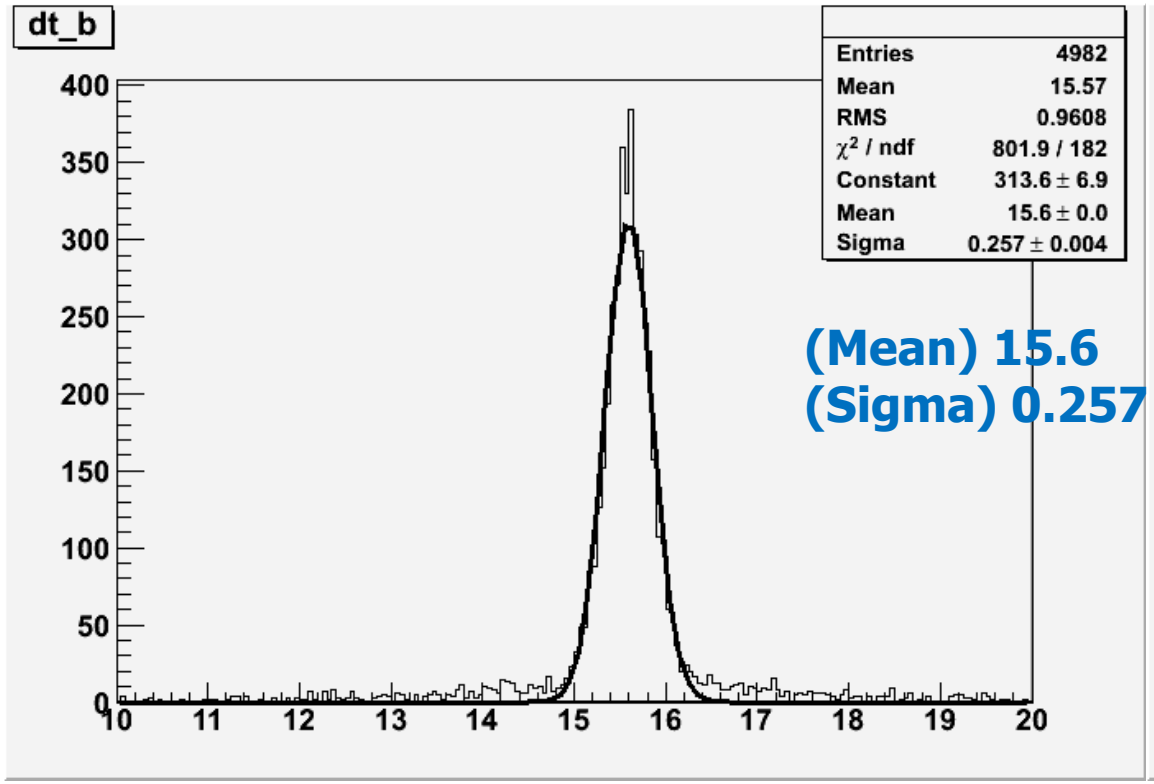


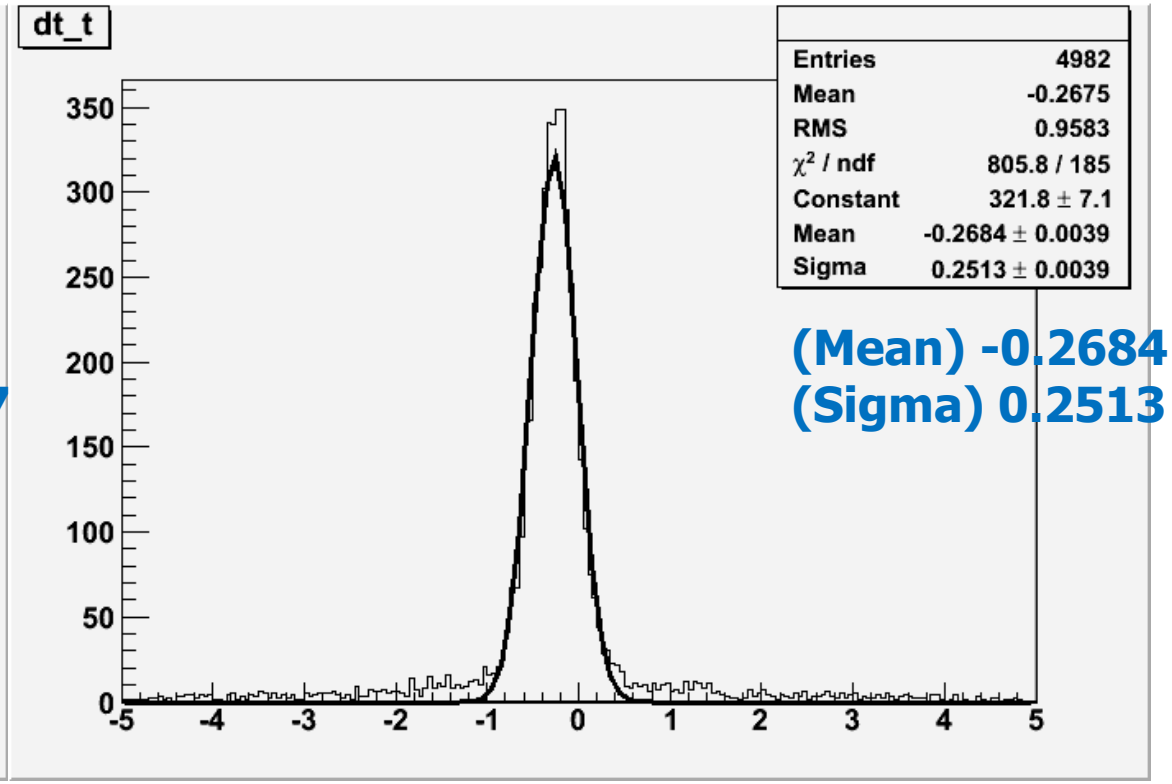
<Raw data>

No double peak



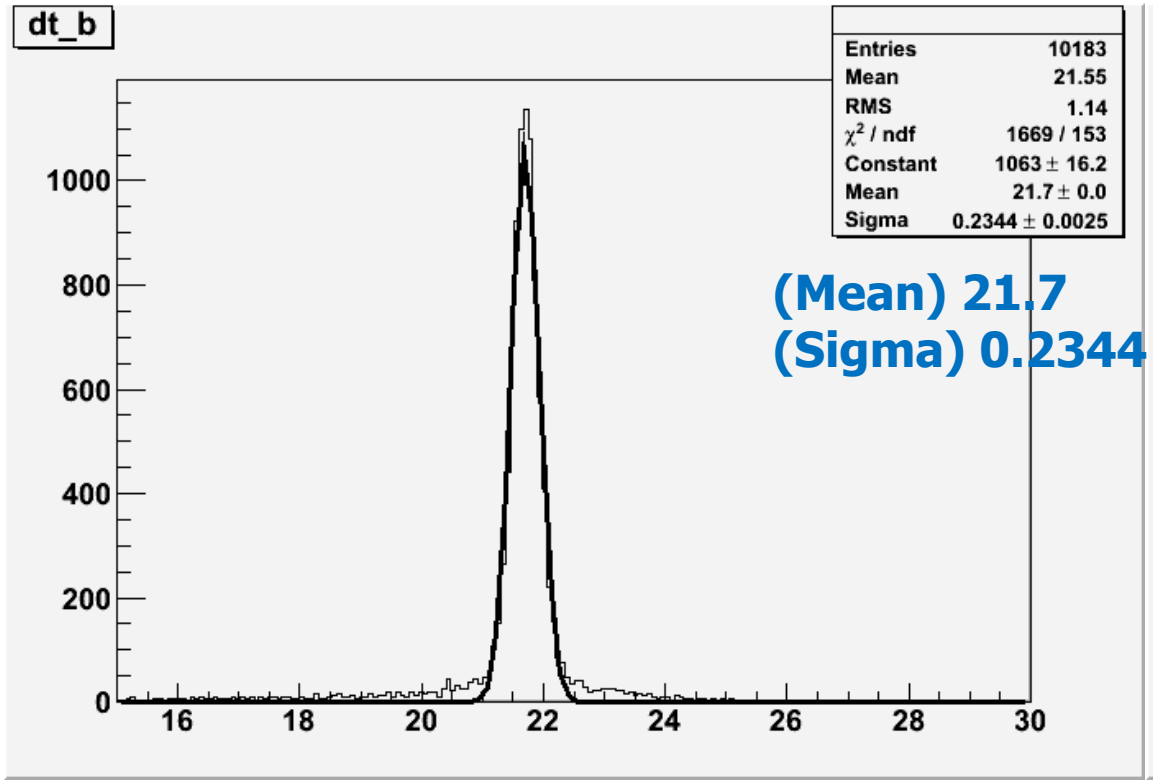
about Broad Gaussian

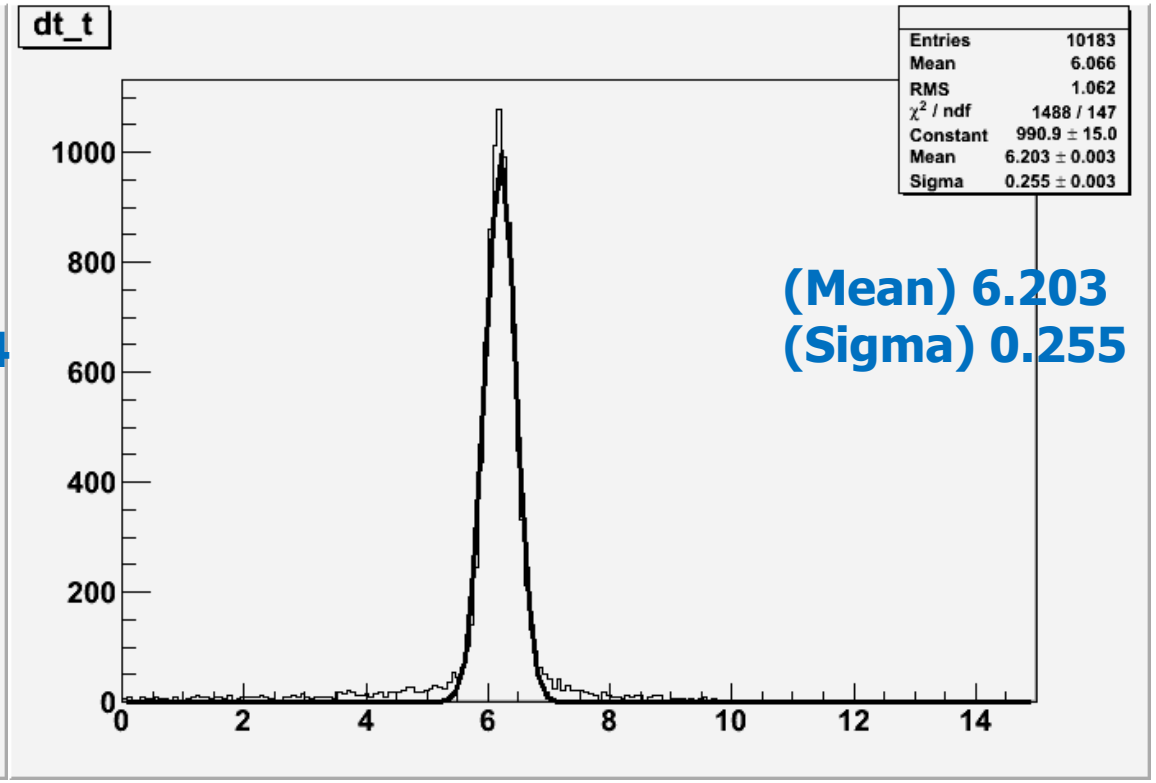




(triggers at center)

about Broad Gaussian

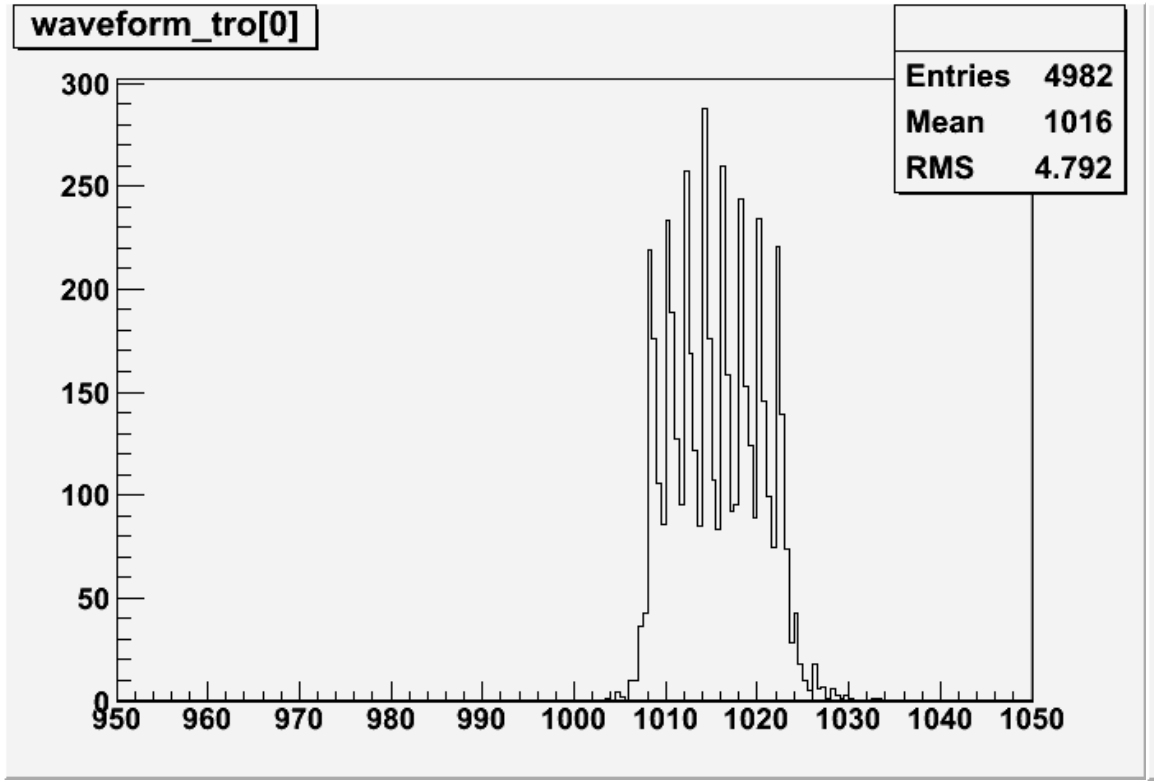




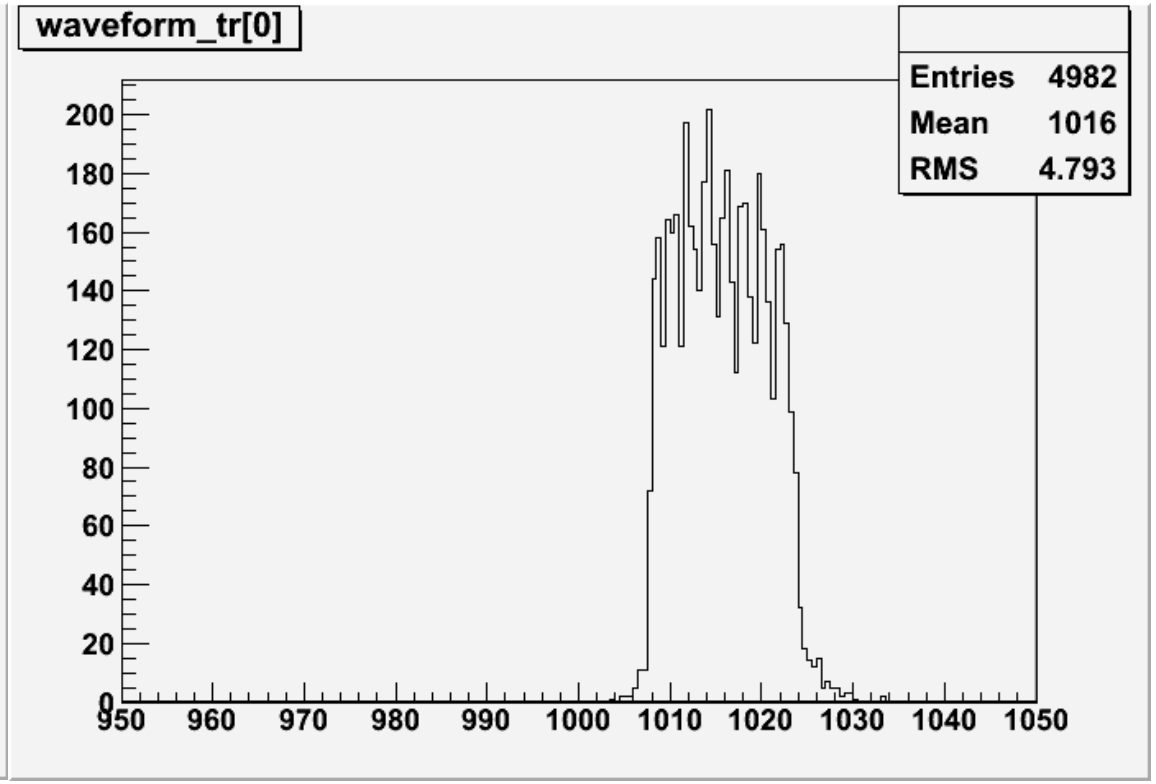
(triggers at x=40 from right)

Another improvement

< 2-point interpolation >

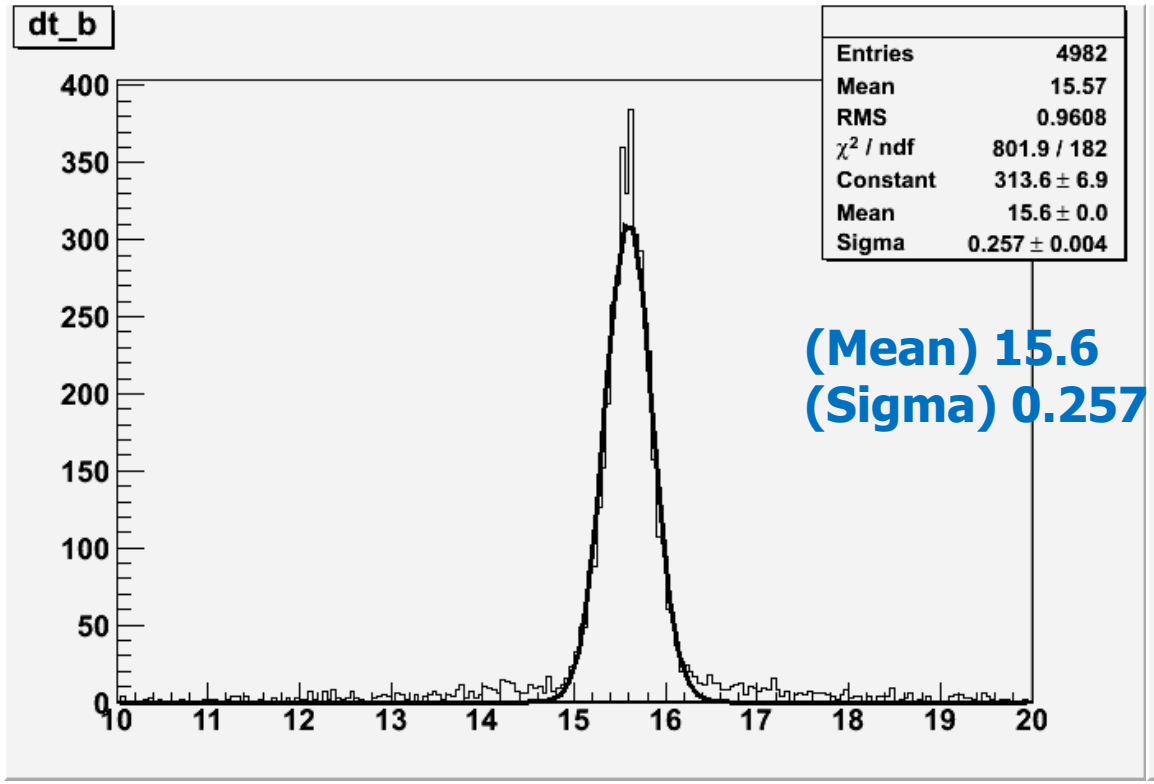


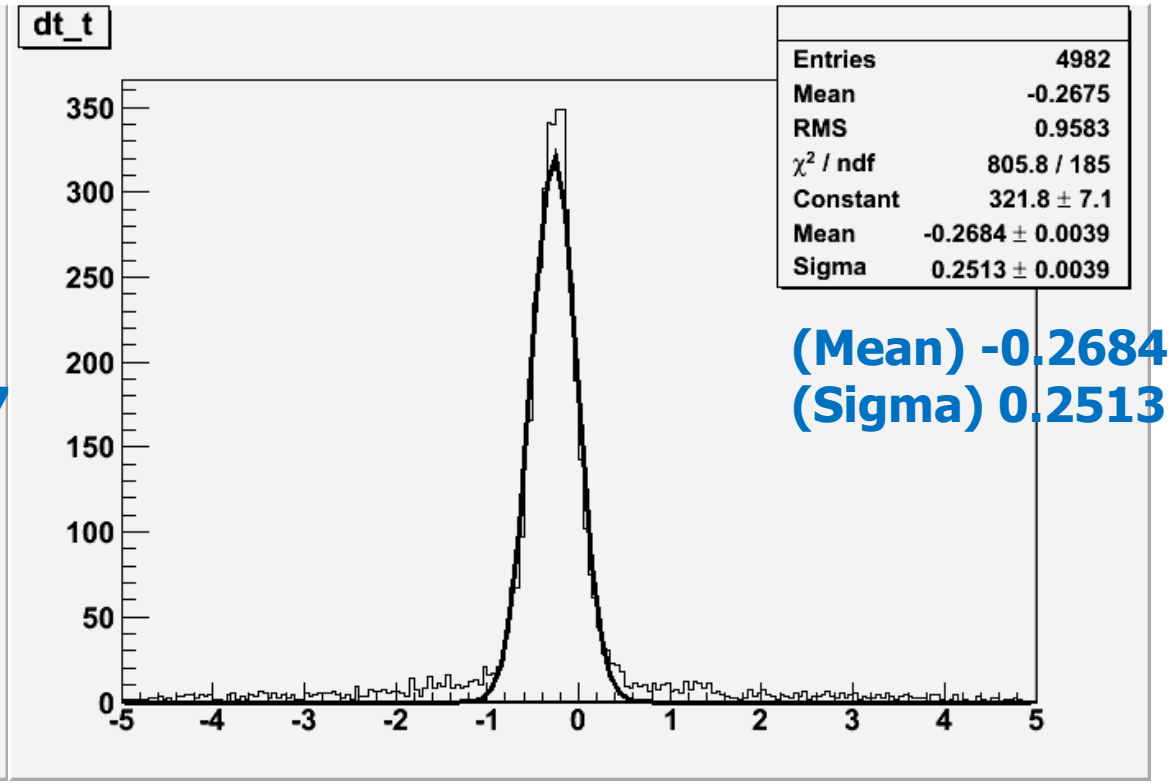
< inverse interpolation >



(triggers at center)

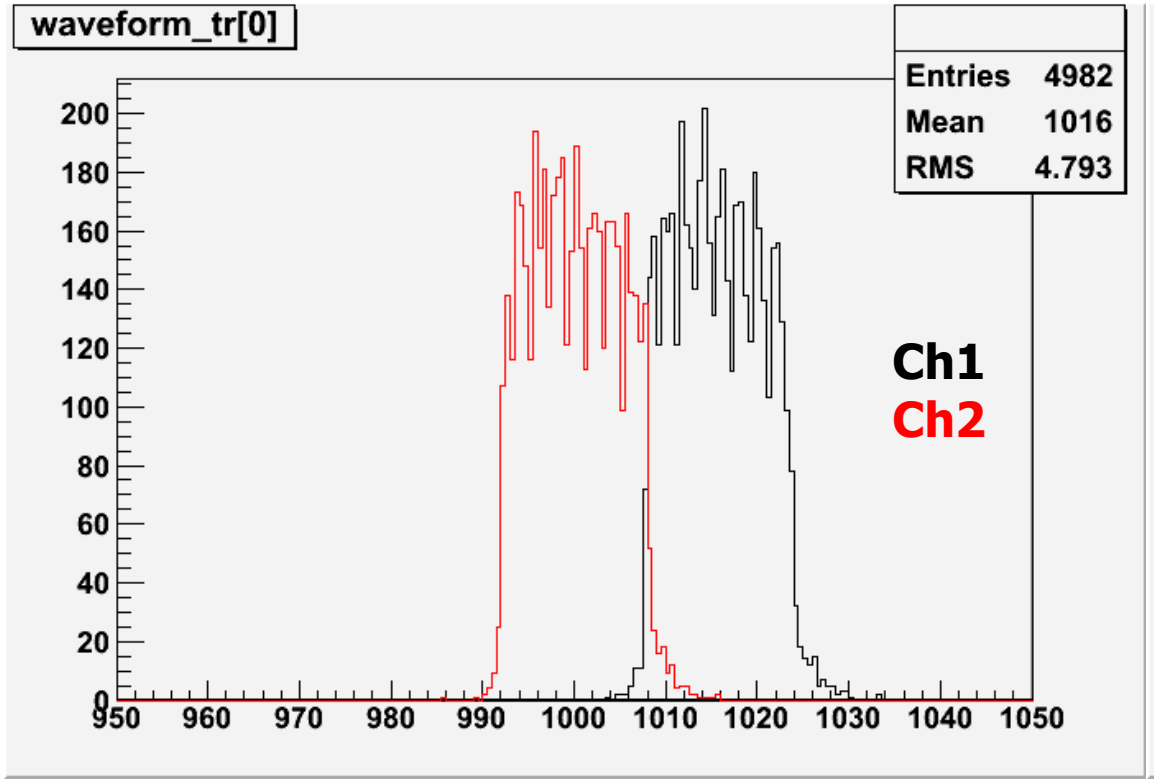
Time difference analysis – at center

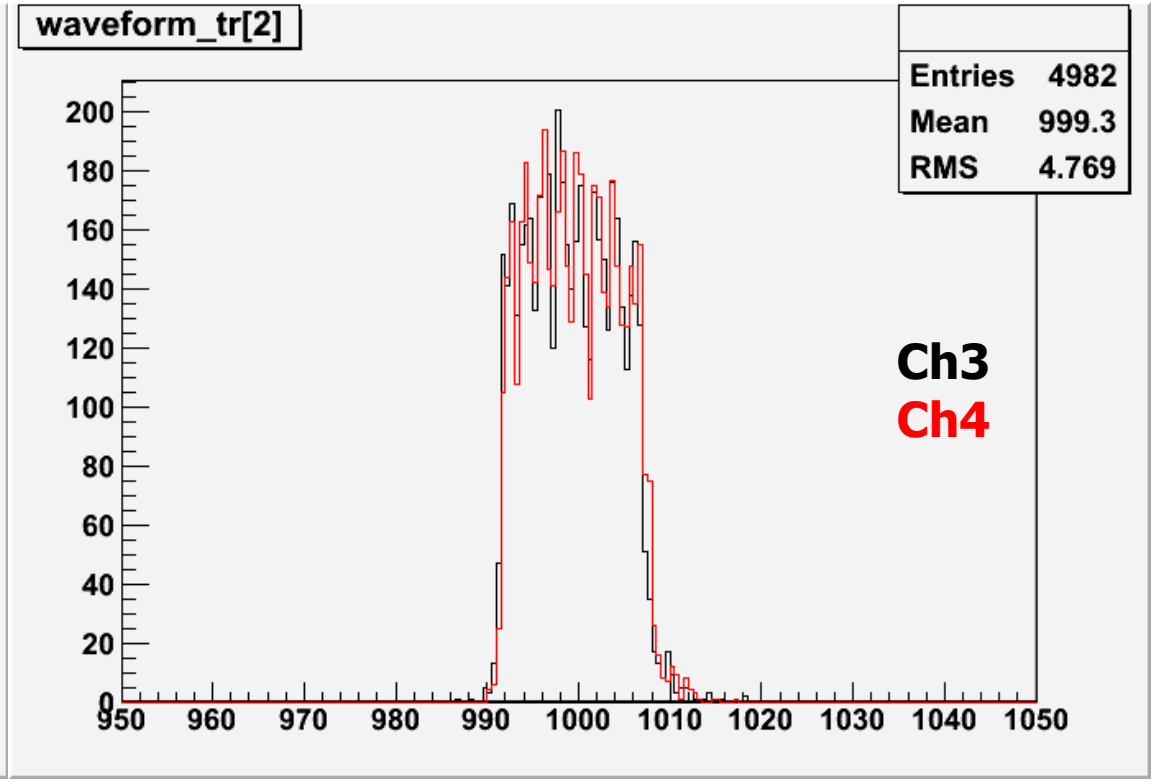




Time difference analysis – at center

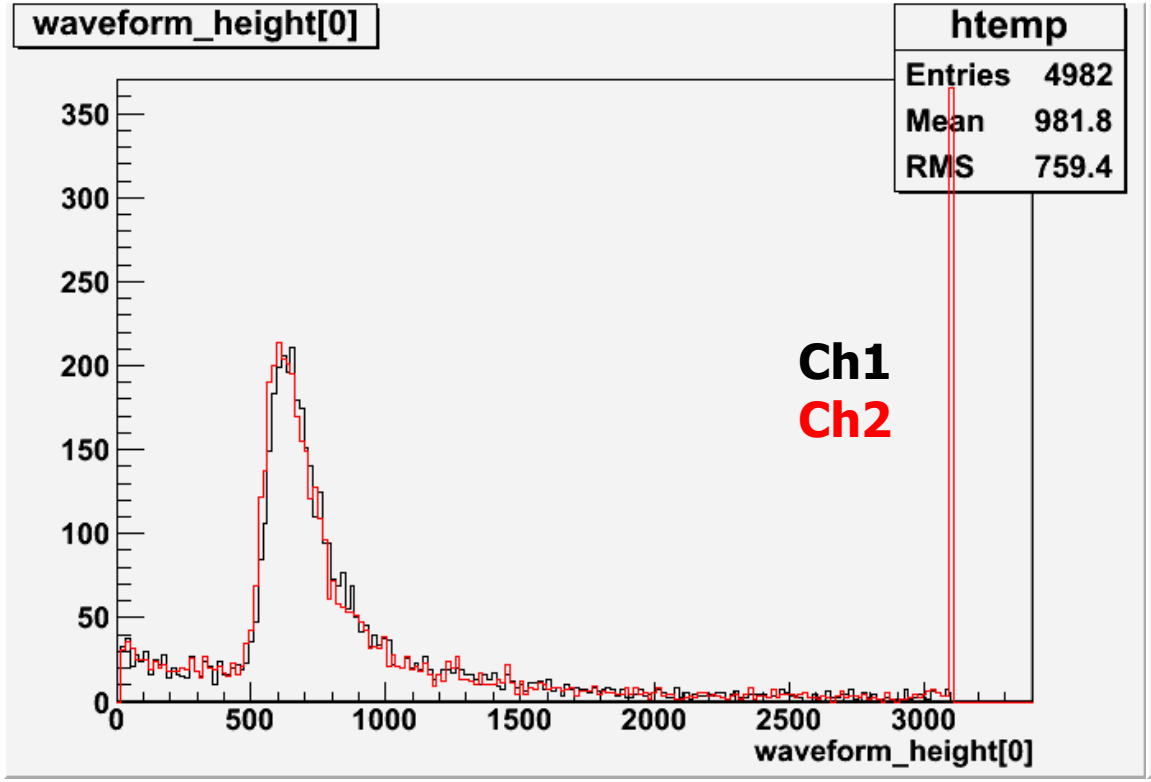
timing comparison

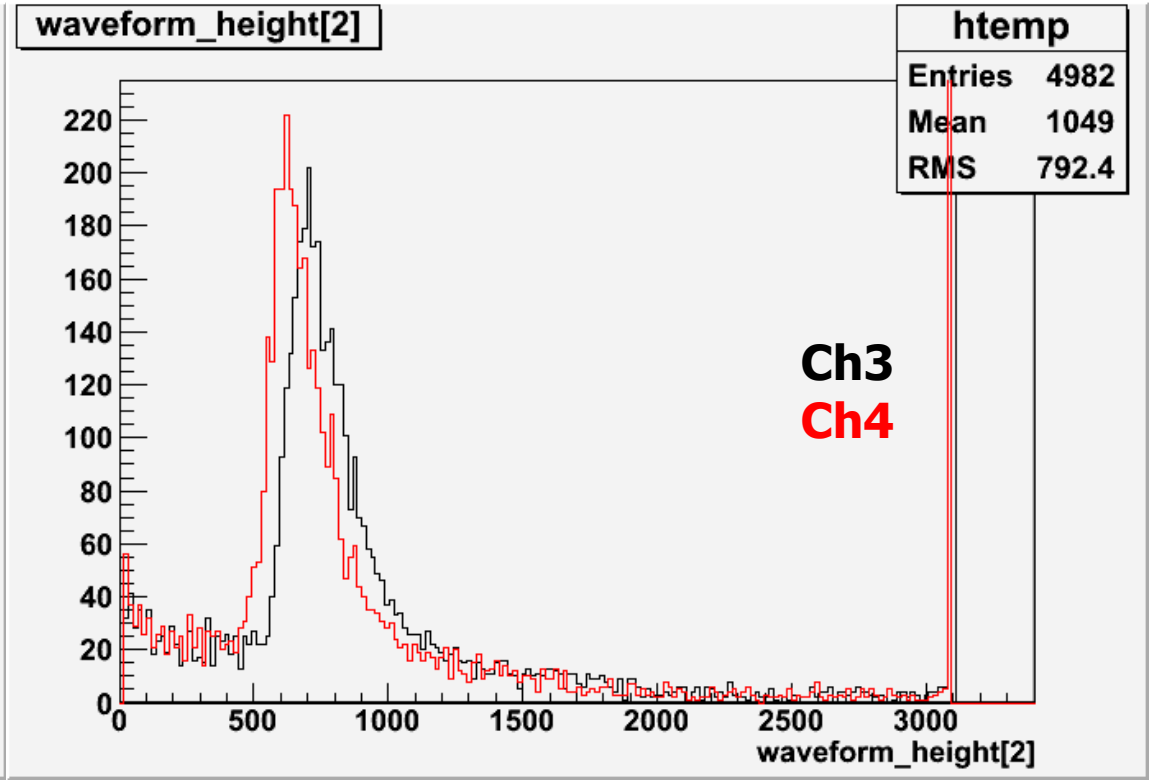




Time difference analysis – at center

Peak-height comparison

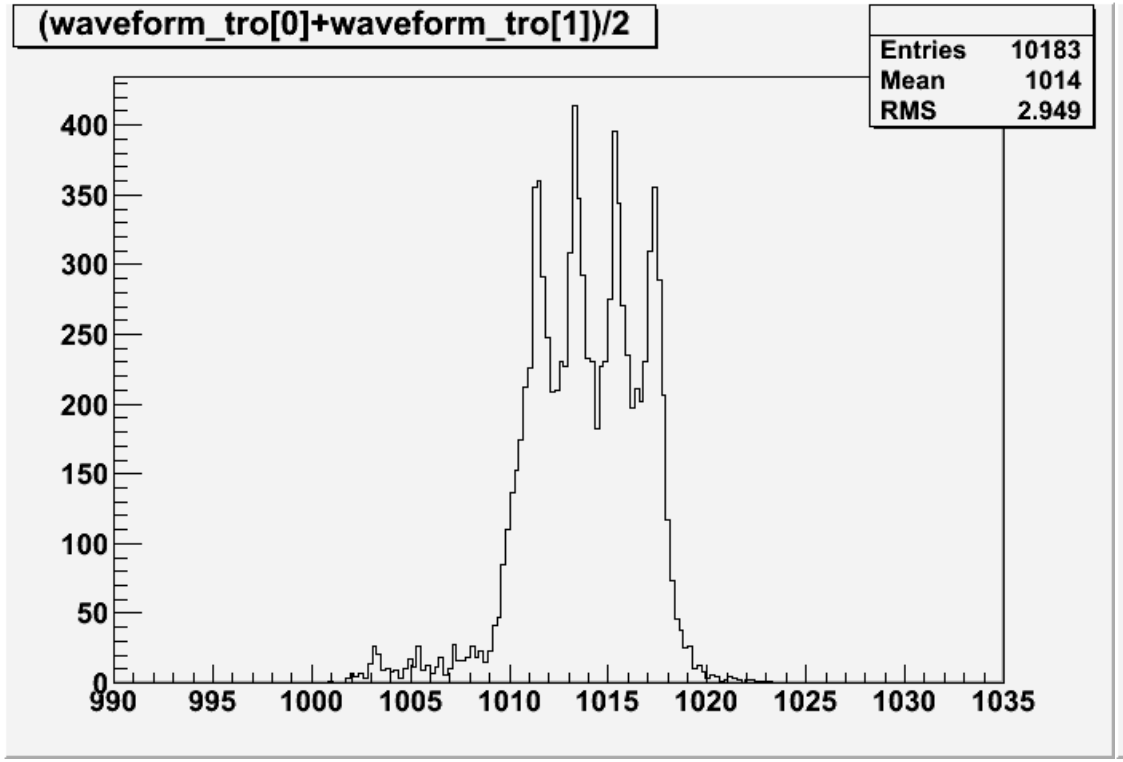




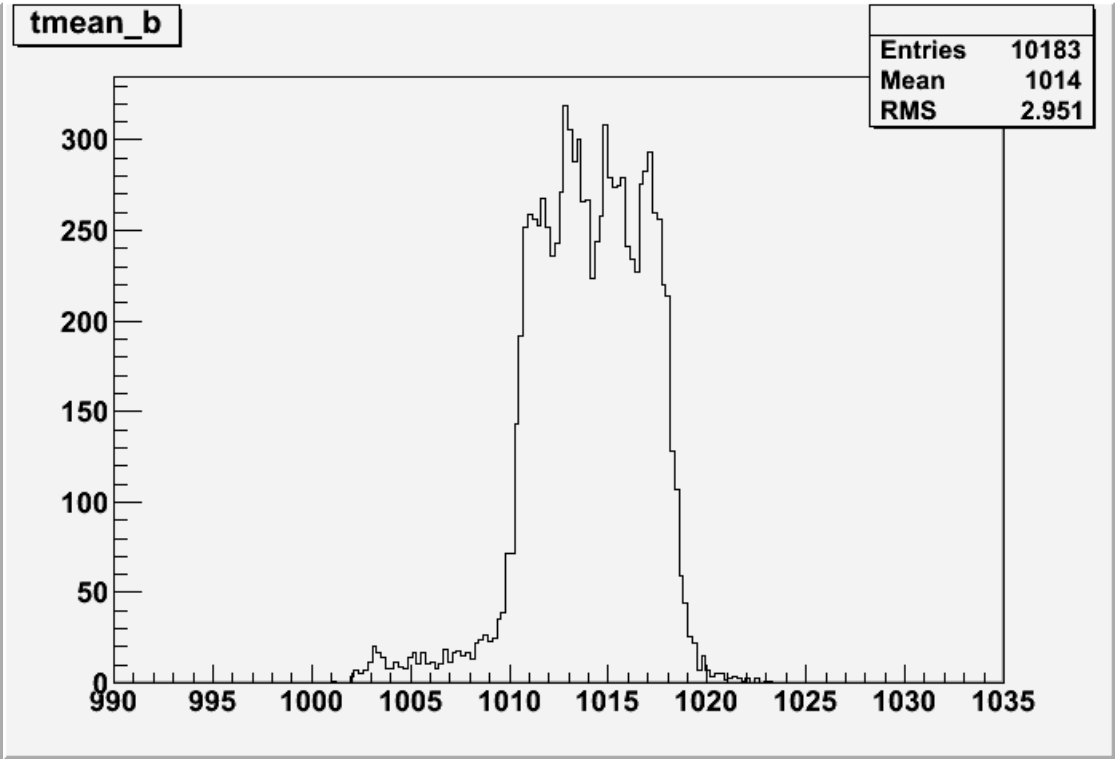
Comparison of mean time between top and bottom – at x=40cm

a. Bottom plastic

< 2-point interpolation >



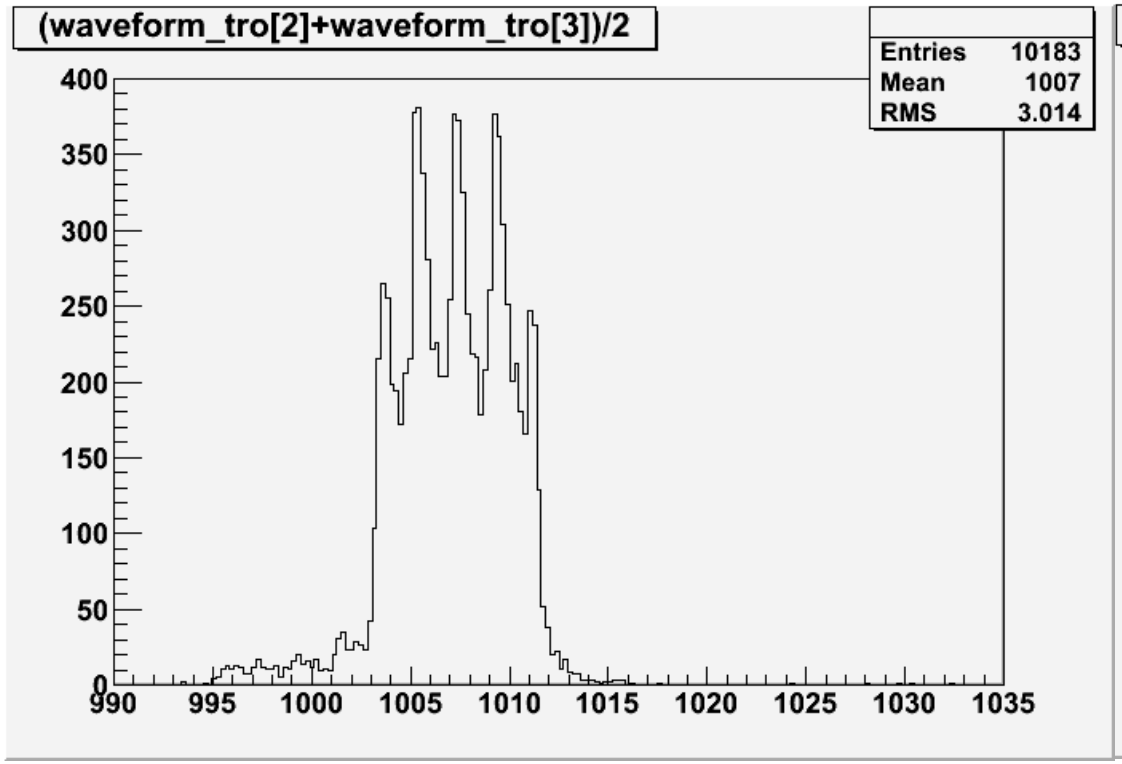
< inverse interpolation >



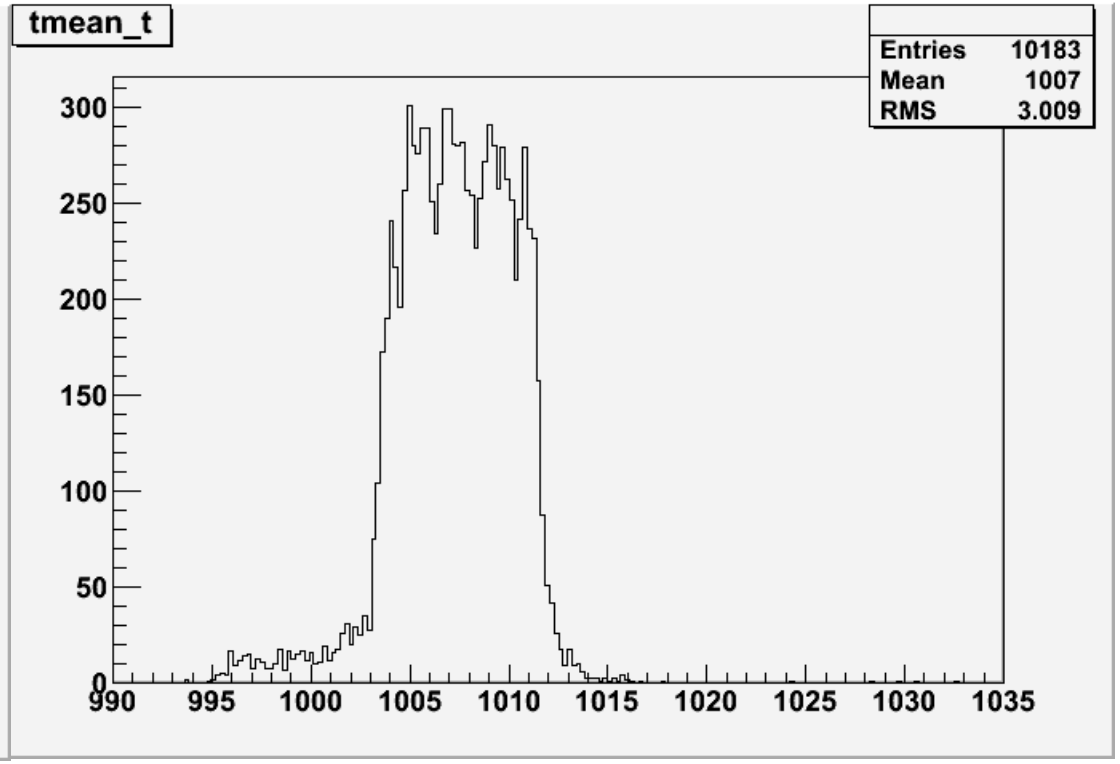
Comparison of mean time between top and bottom – at x=40cm

b. Top plastic

< 2-point interpolation >



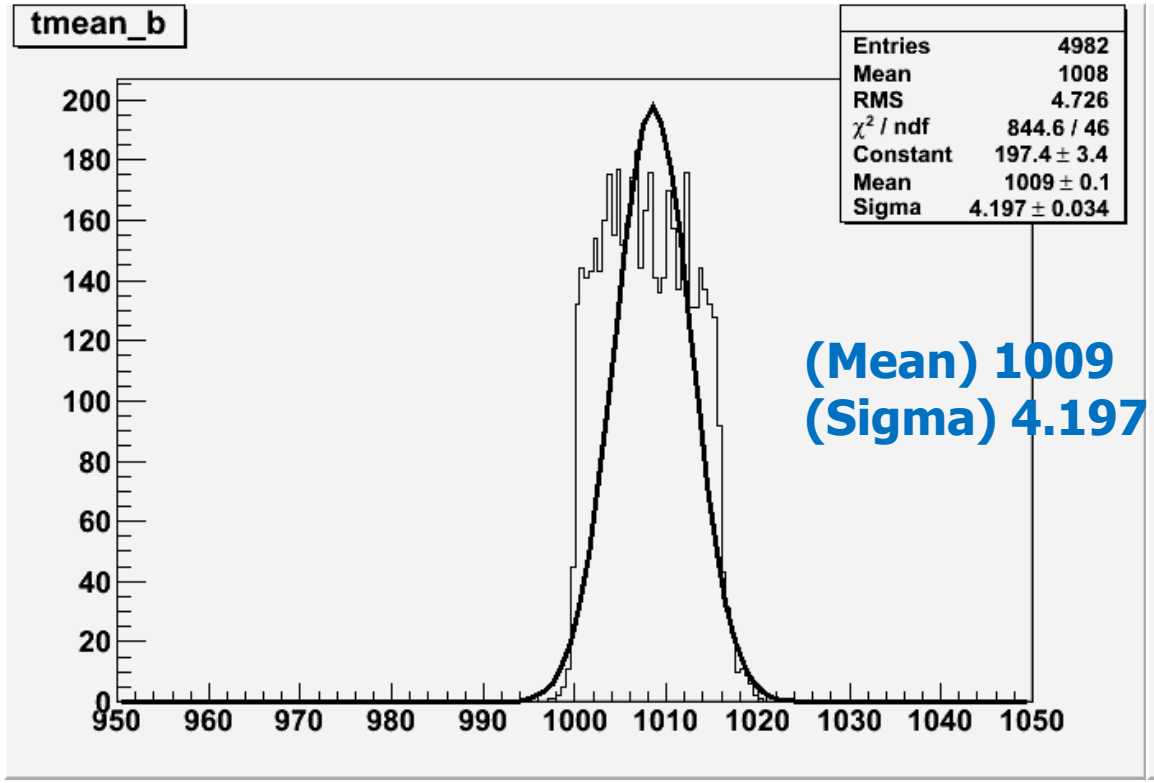
< inverse interpolation >



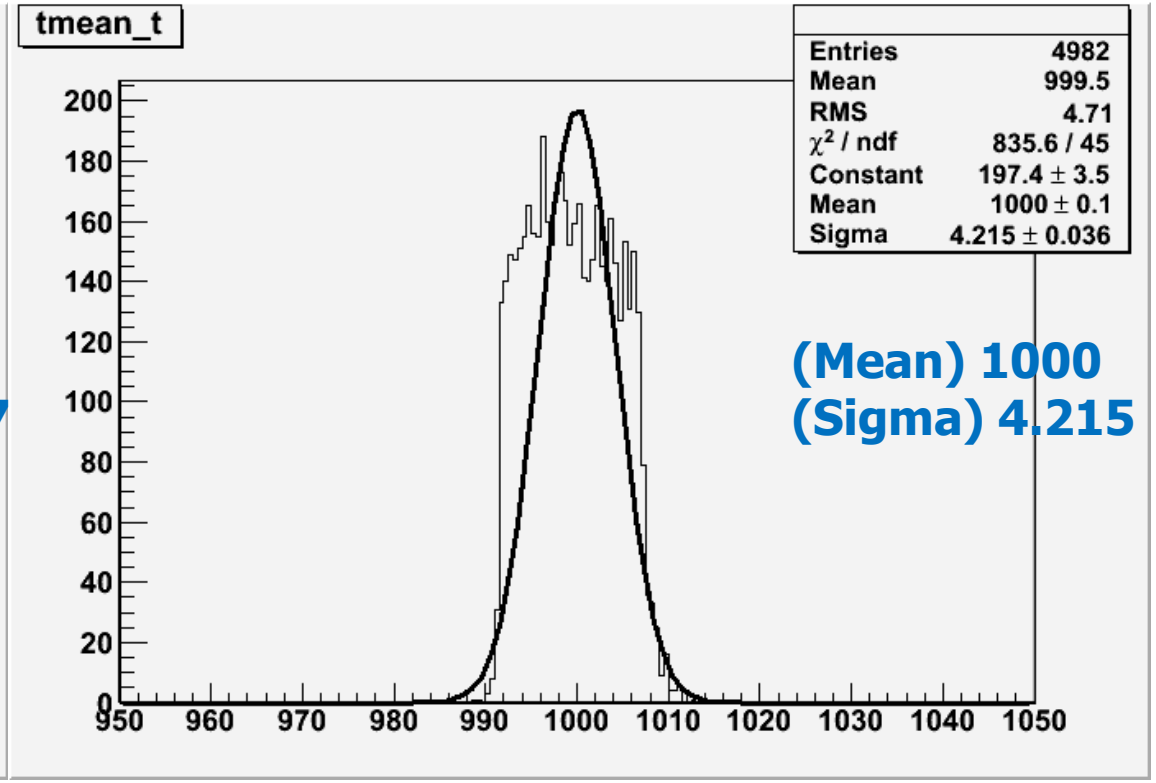
Comparison of mean time between top and bottom – at center

Fit with a Gaussian

< bottom >



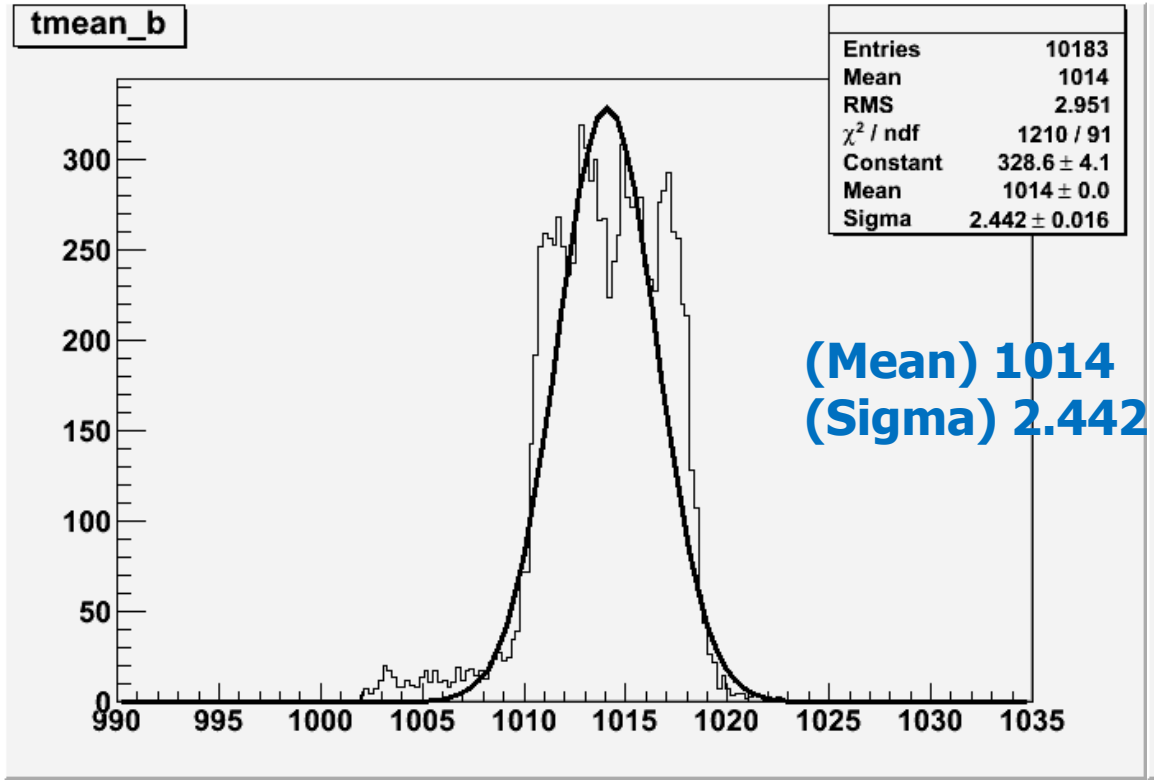
<top>



Comparison of mean time between top and bottom – at x=40cm

Fit with a Gaussian

< bottom >



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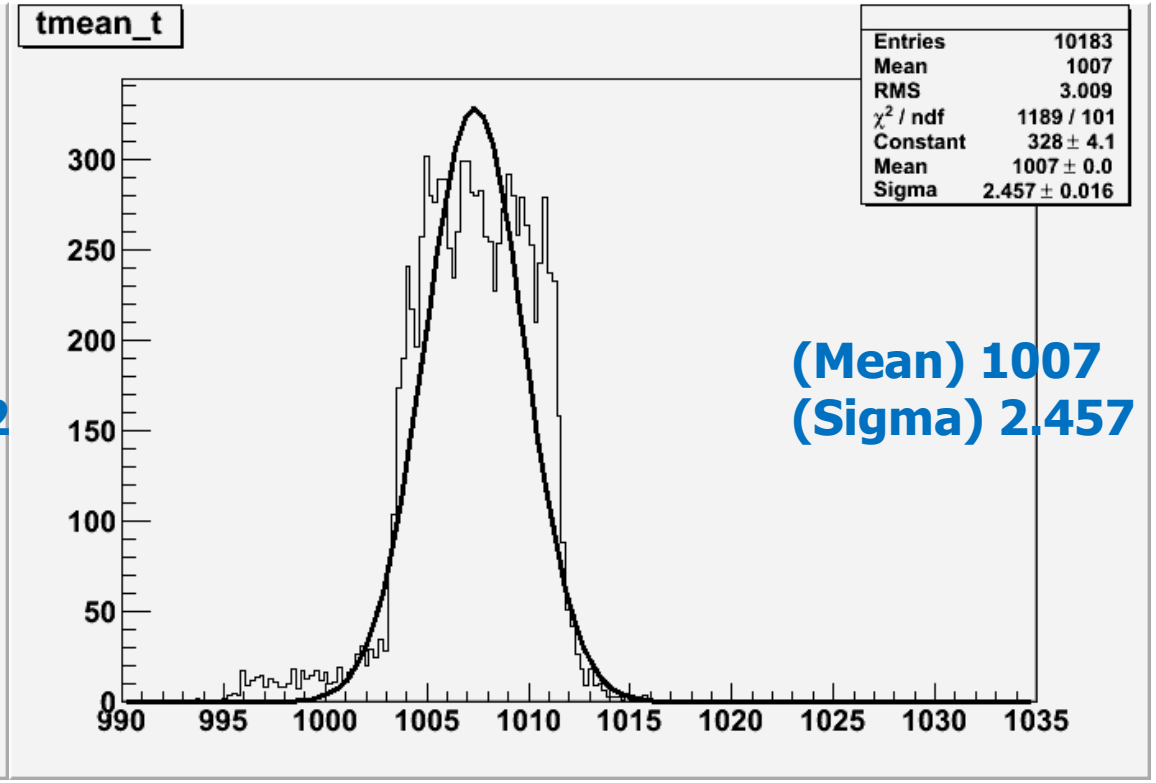

TO DO

*** analysis**

Find timing difference of FADC data with Gaussian fit

*** experiments**

Set the gains similar each other (find those voltages)

See how the resolution changes when Vcc increases (find optimized Vcc)

Later, investigate PMT gain near the optimized voltage