# Trigger Bias Study at Test Bench Data

RIKEN/RBRC
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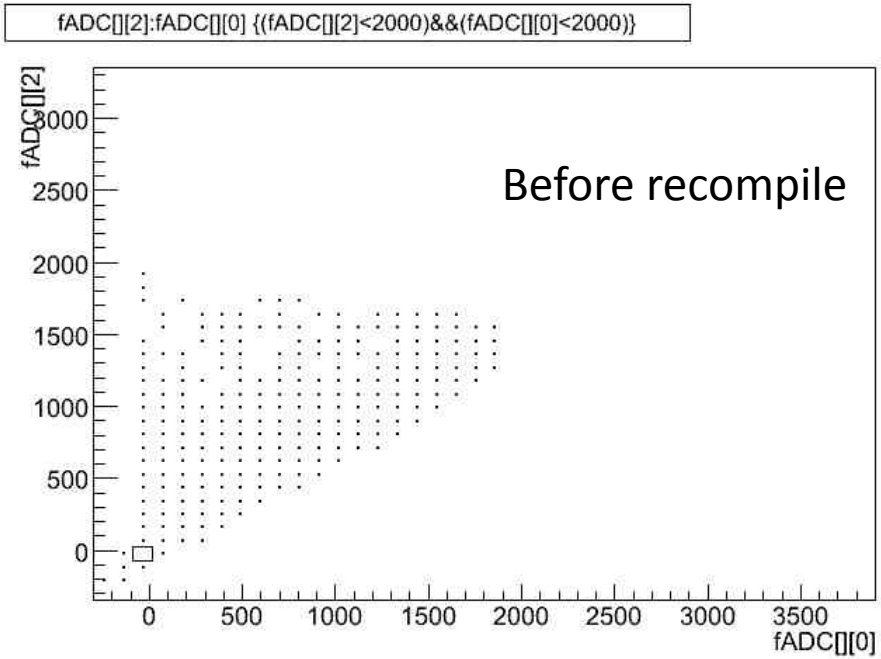
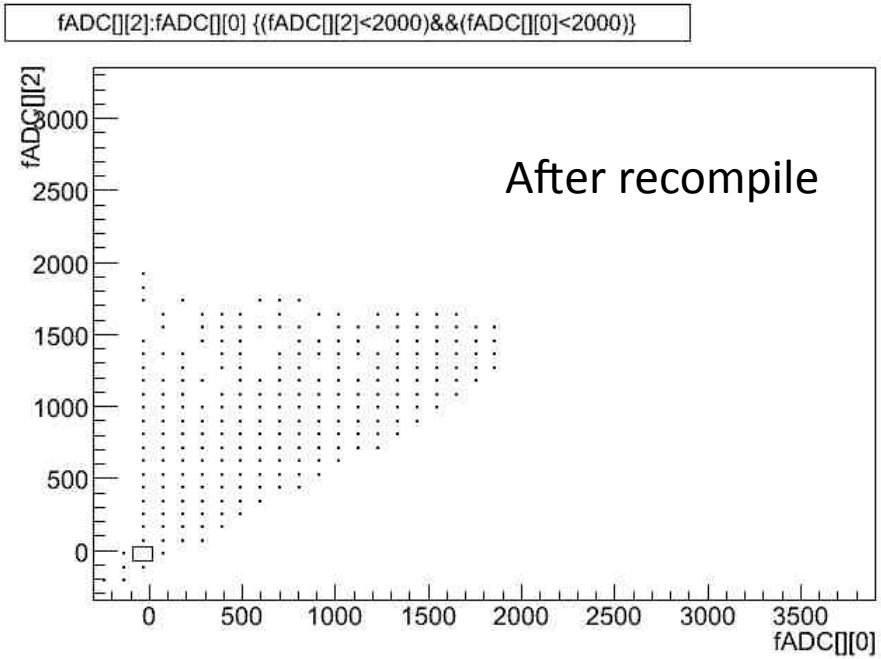
# Recompile Code

Recompiled ~/work/Ana/mutrver01 and renewed bin/ and lib directories




dat100604/bkp/feeclus02.root



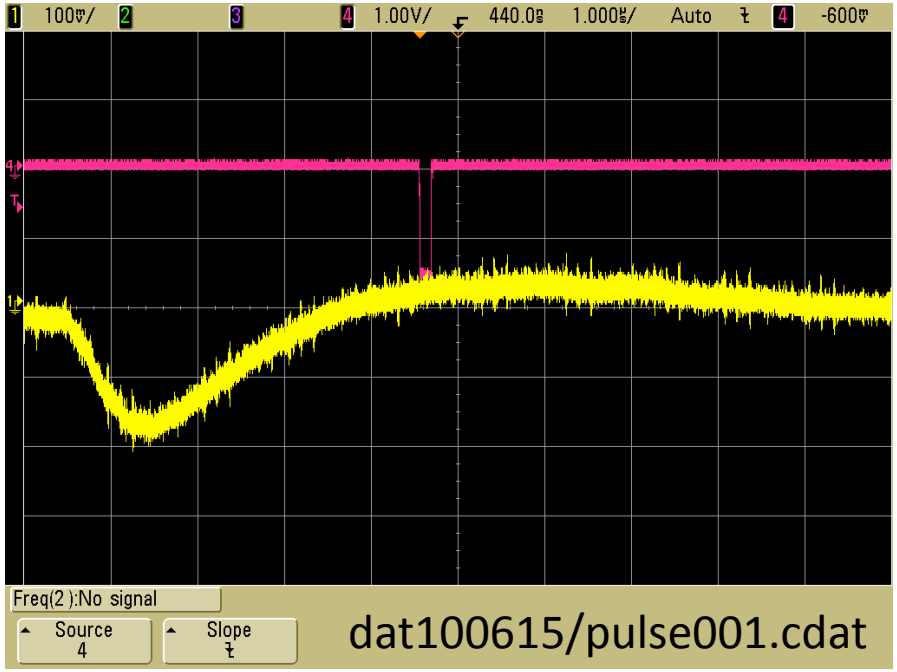

dat100604/feeclus02.root

They are absolutely identical. Events in fADC[2]<fADC[0] region are still missing.

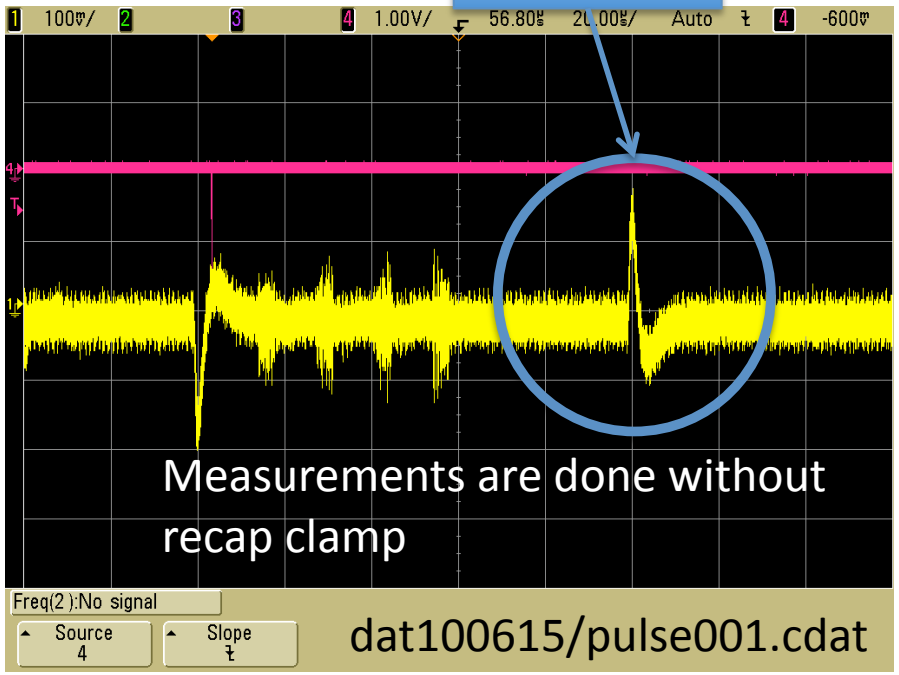
# Timing Tune with Calibration Pulse

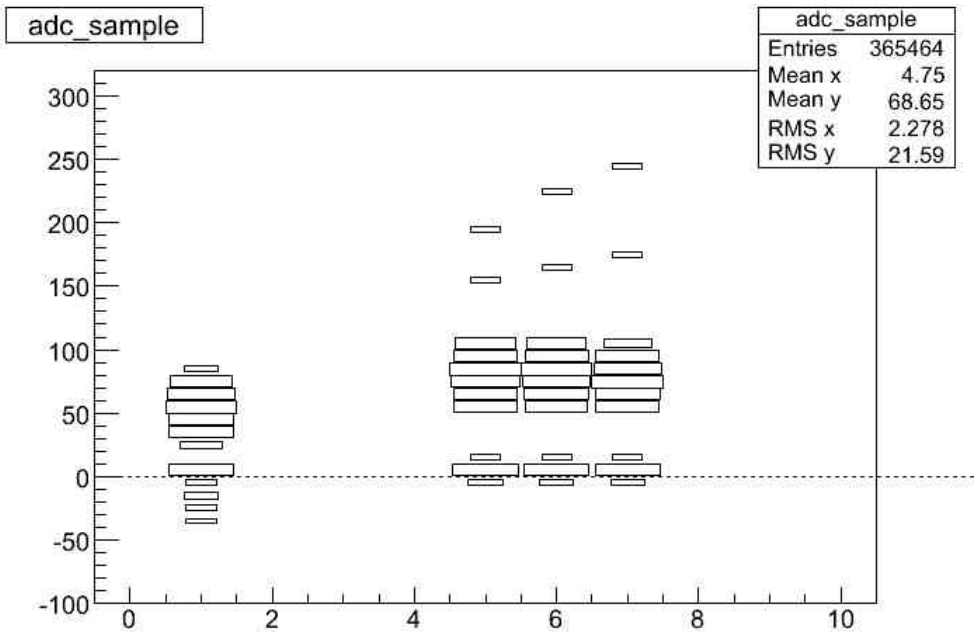
# Calibration Pulse

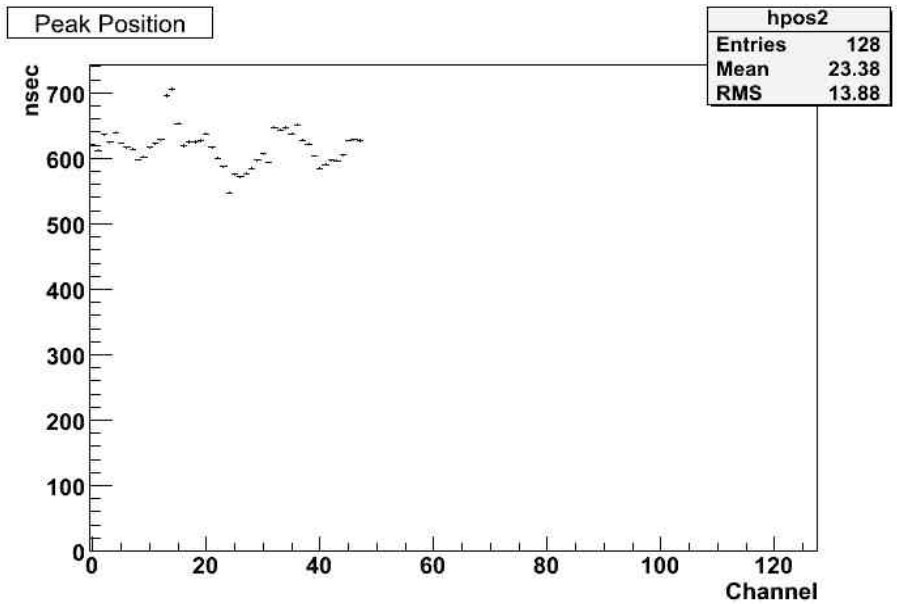
default



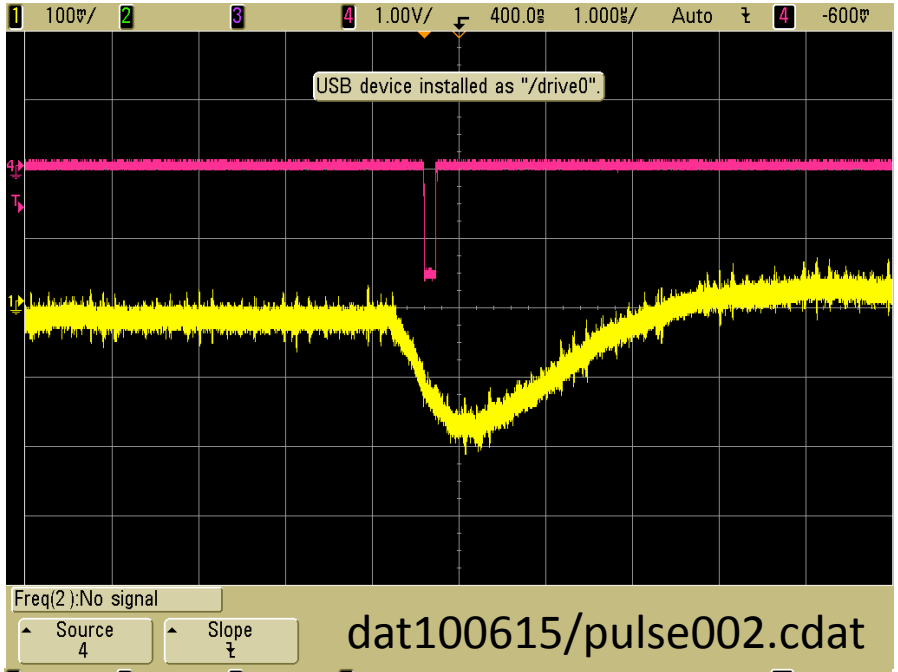

Reflection?

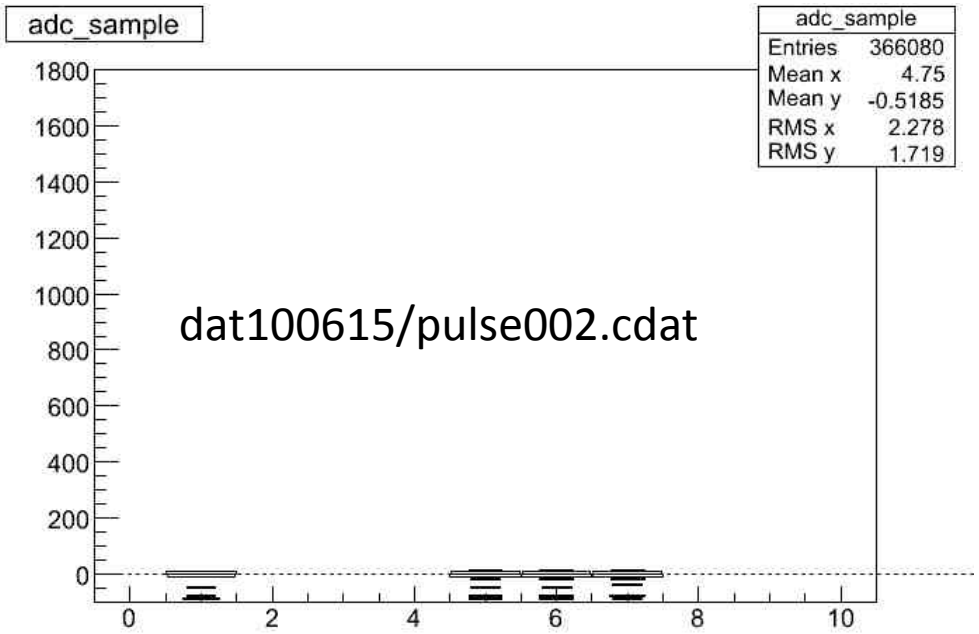


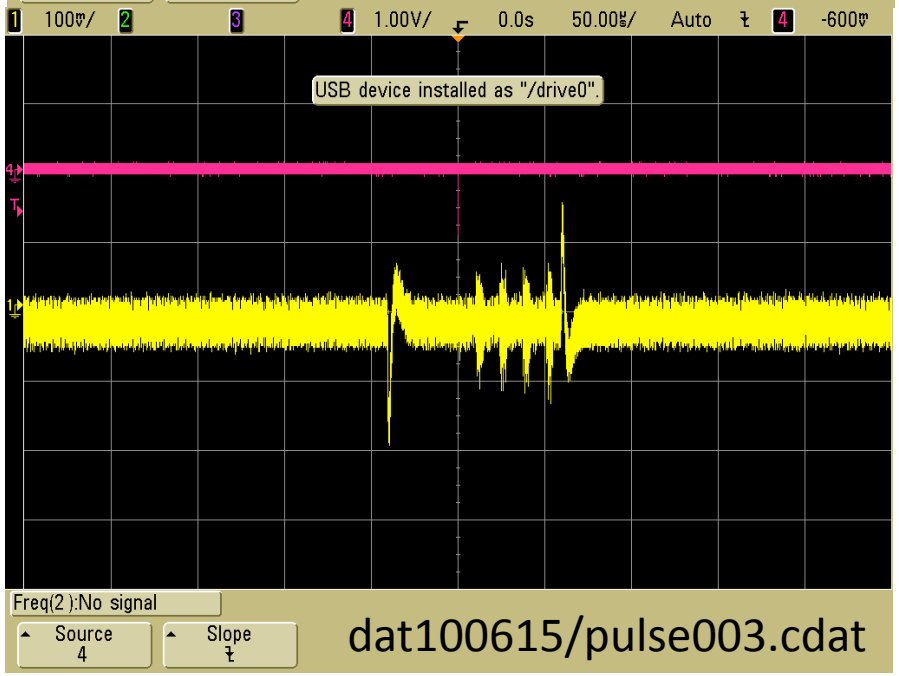



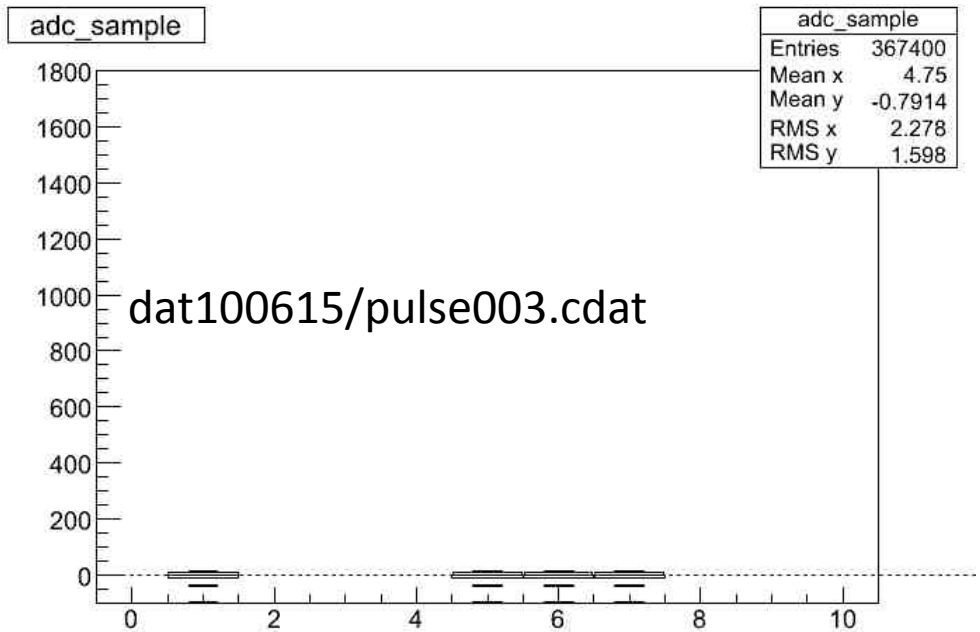



# Timing Check



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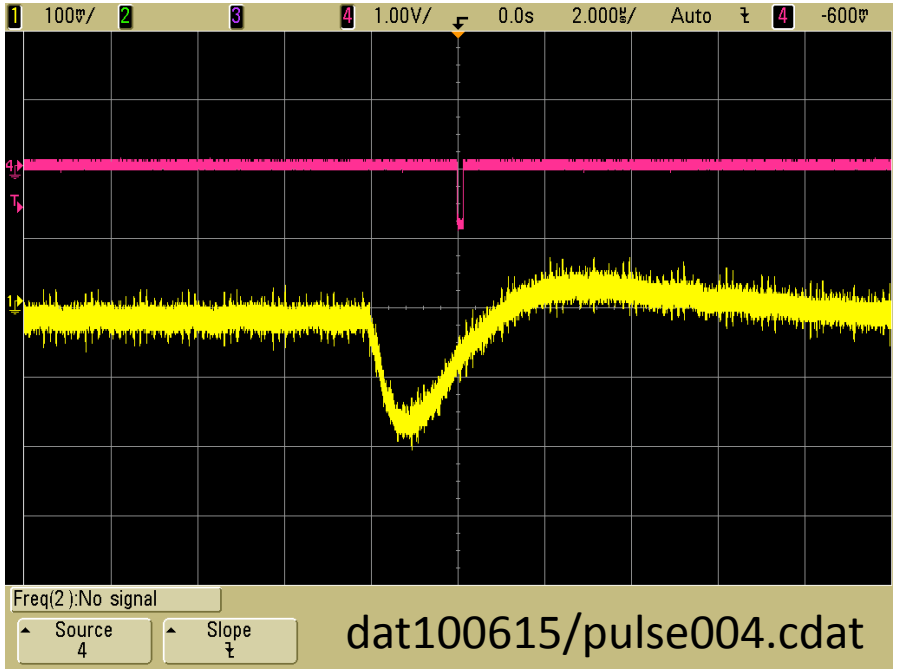


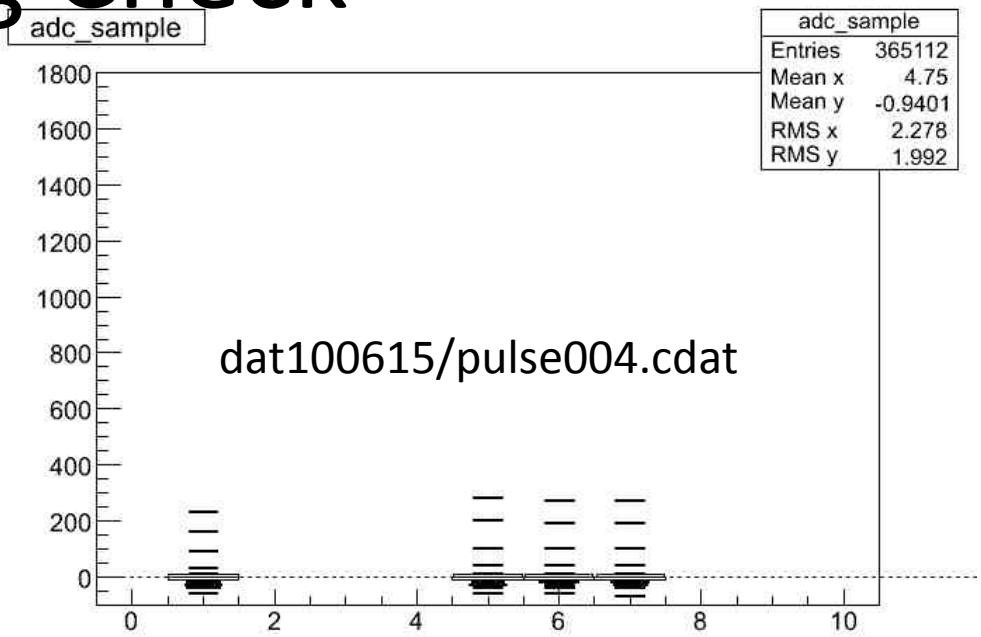


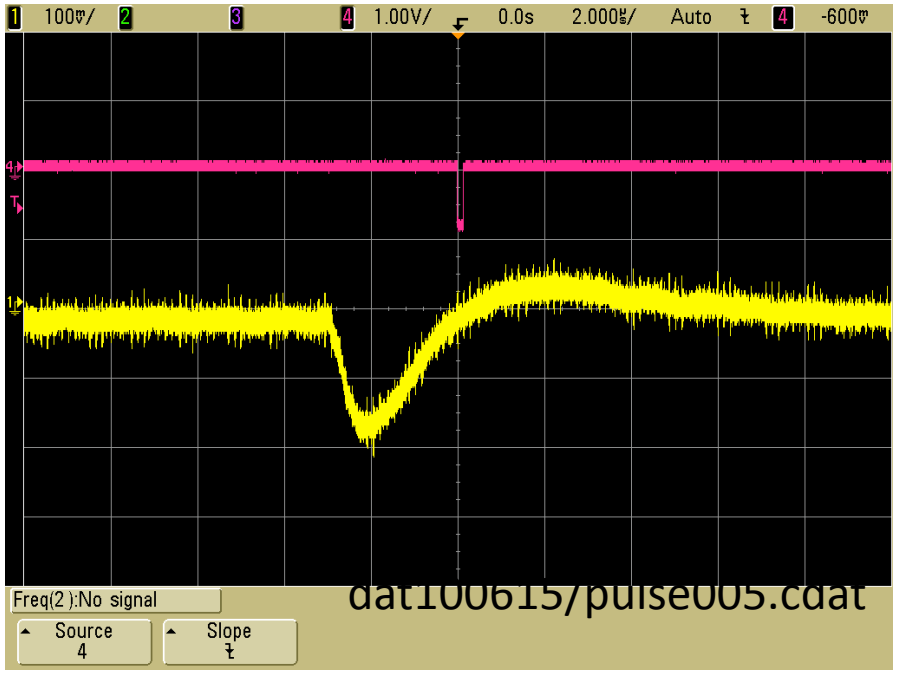


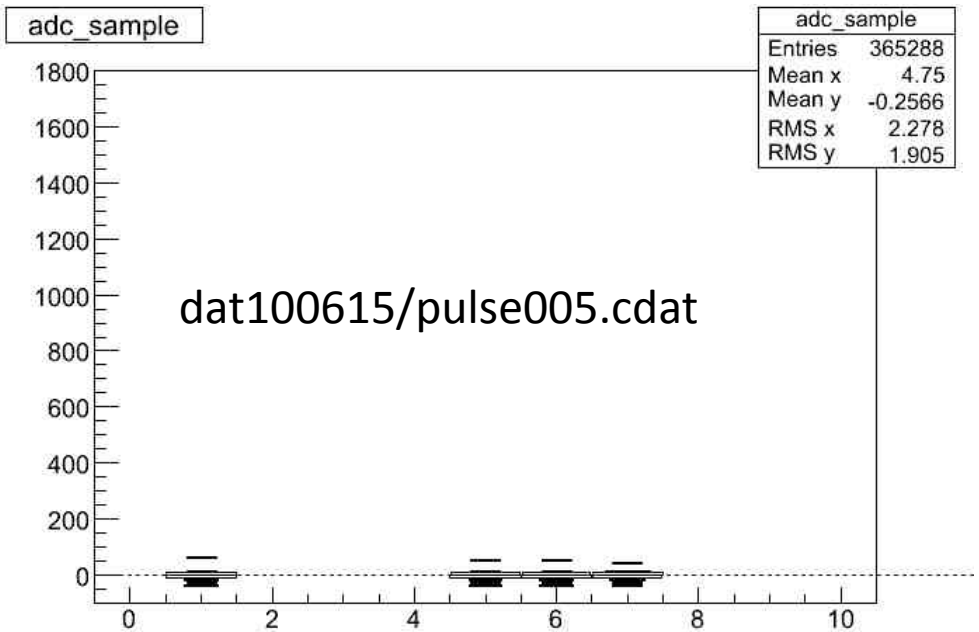

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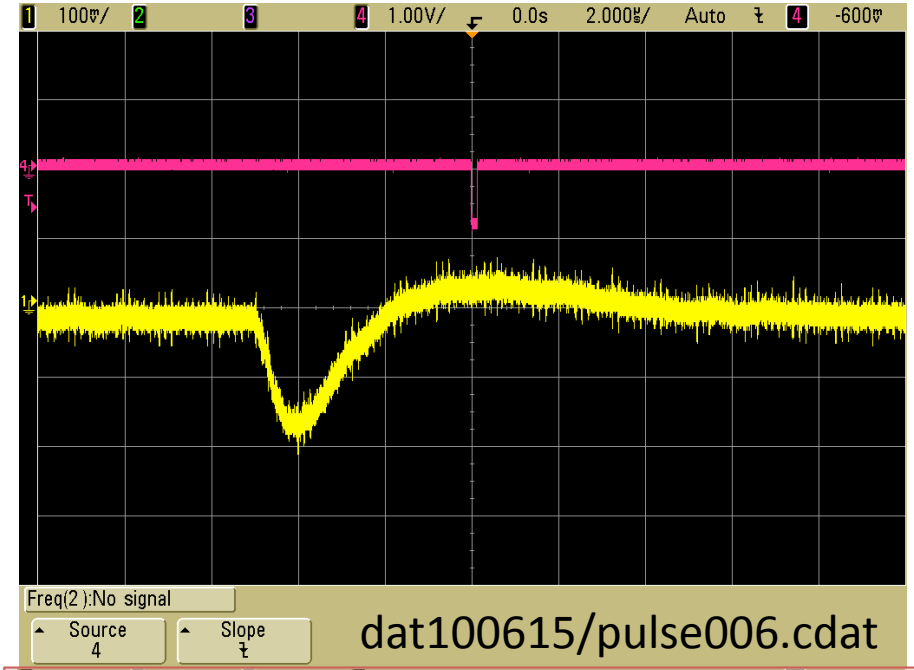


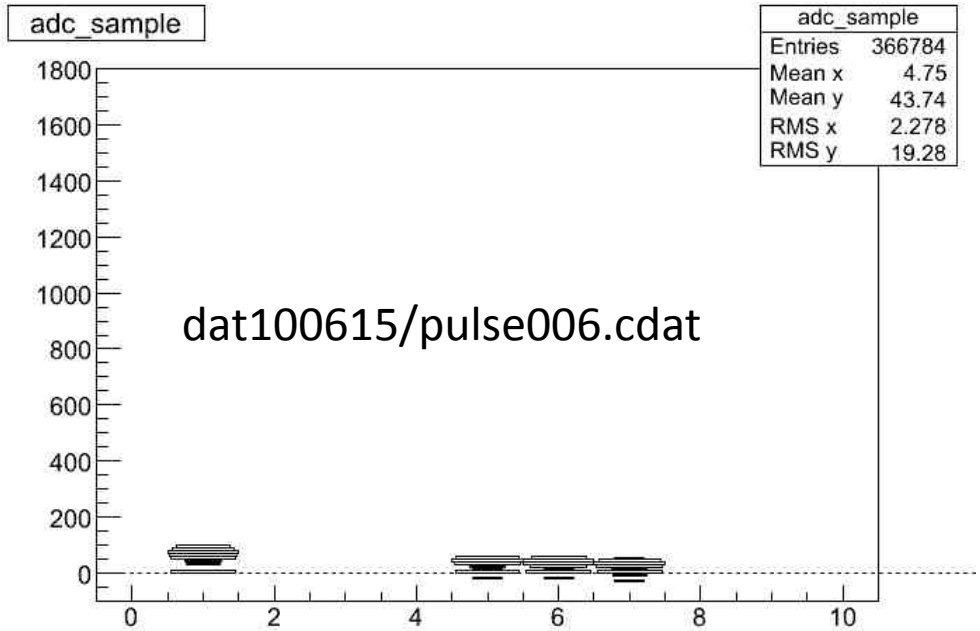


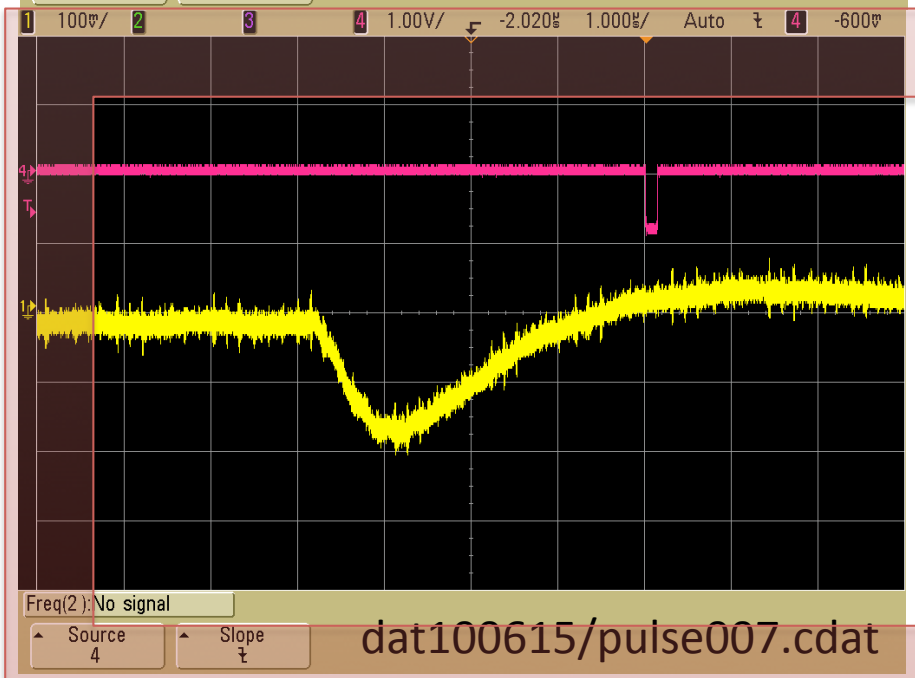


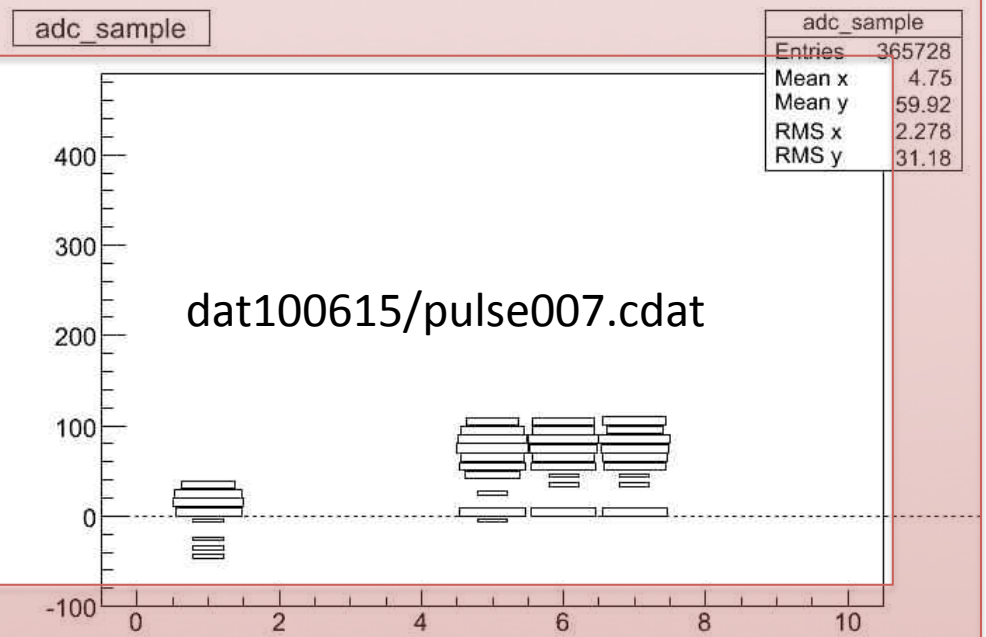

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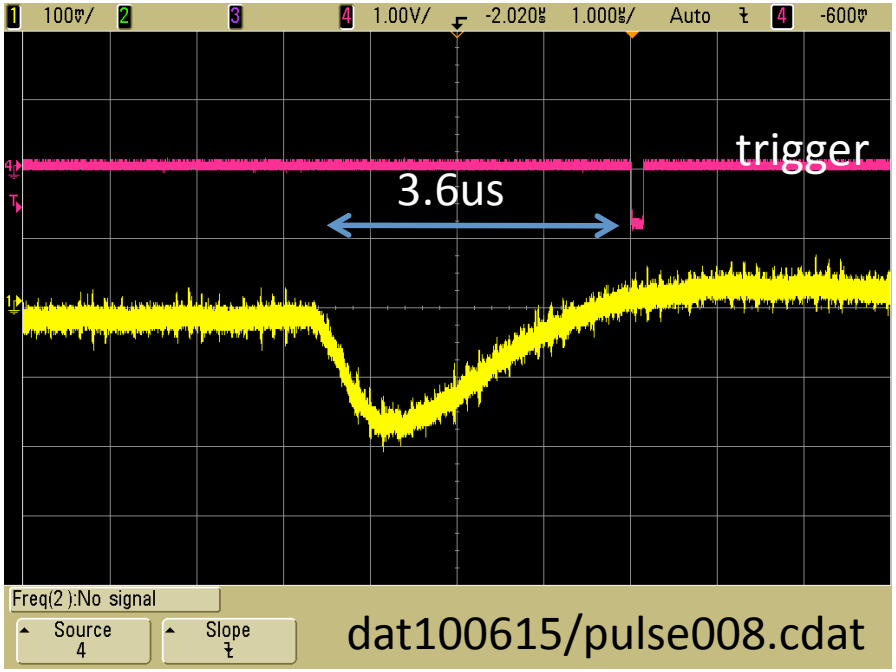
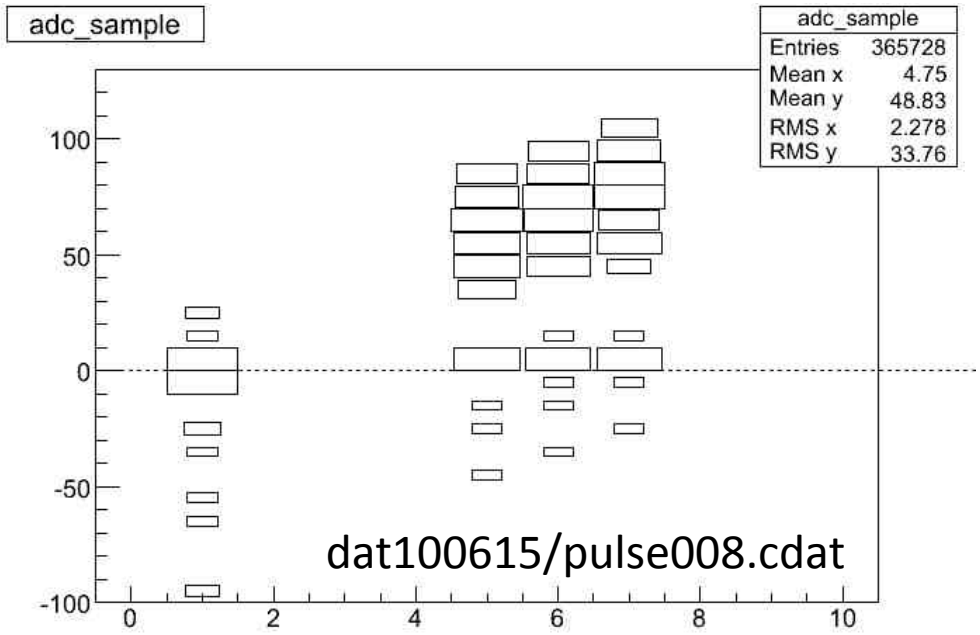
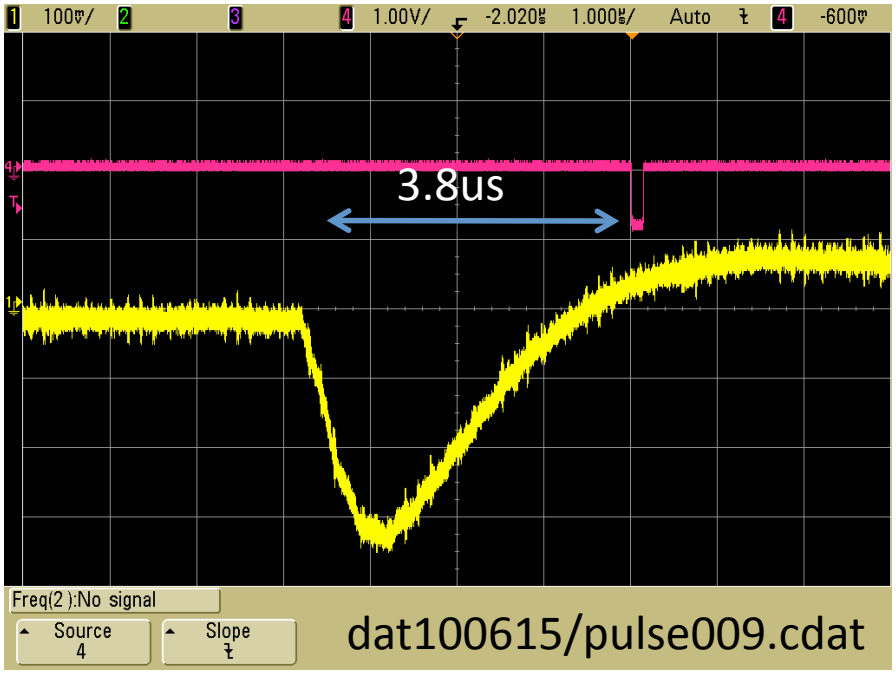
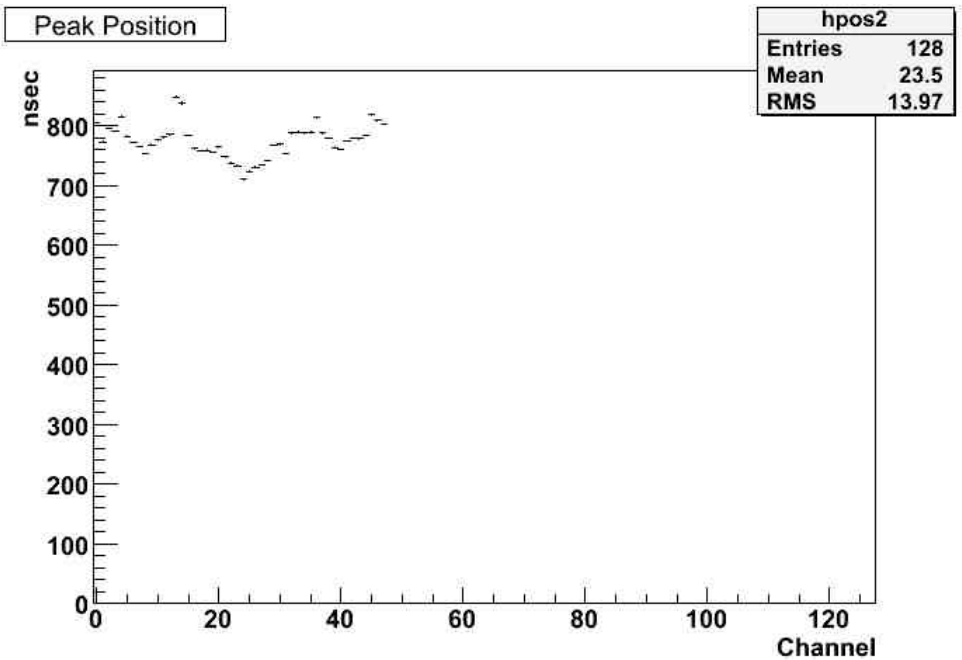
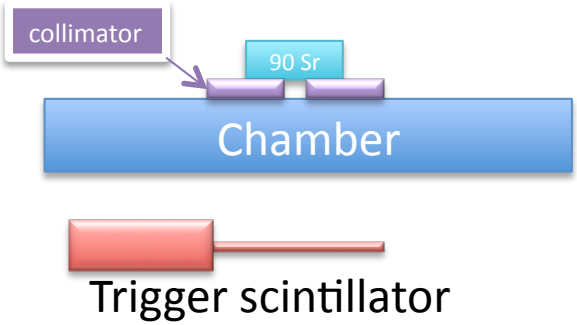


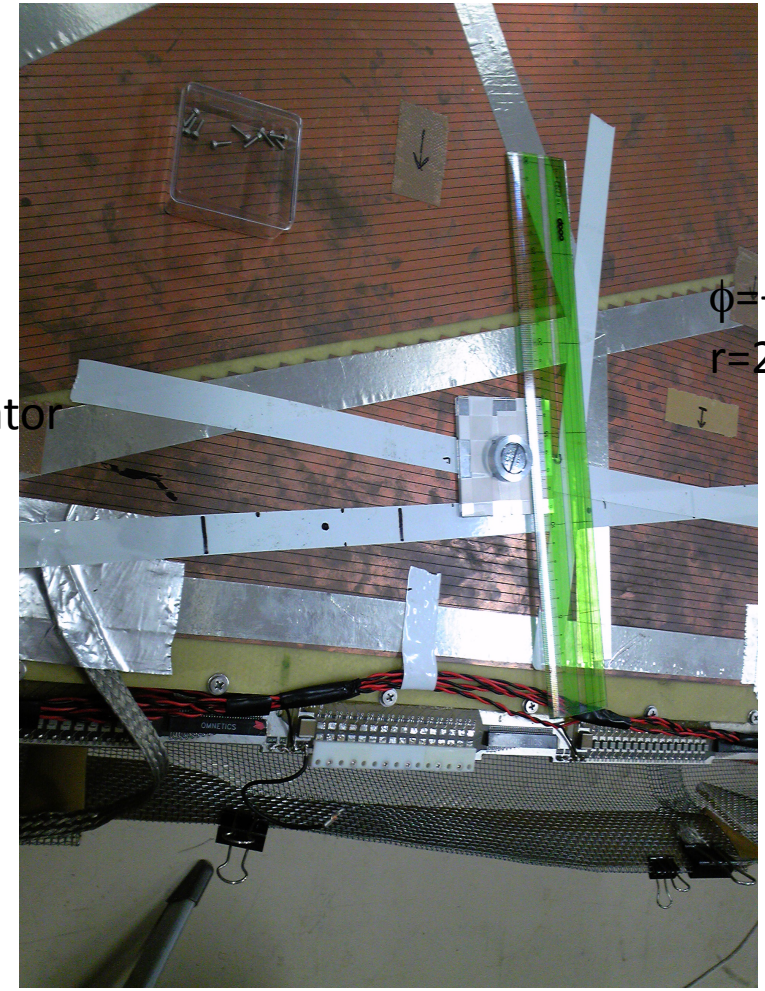



# Backup Scintillator Trigger

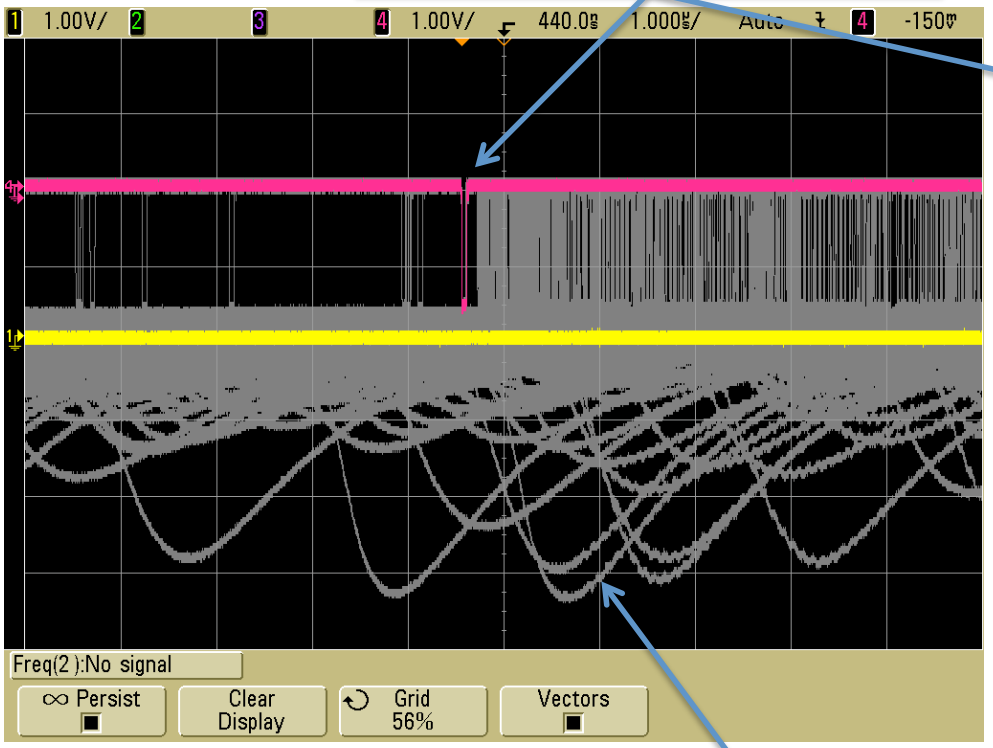


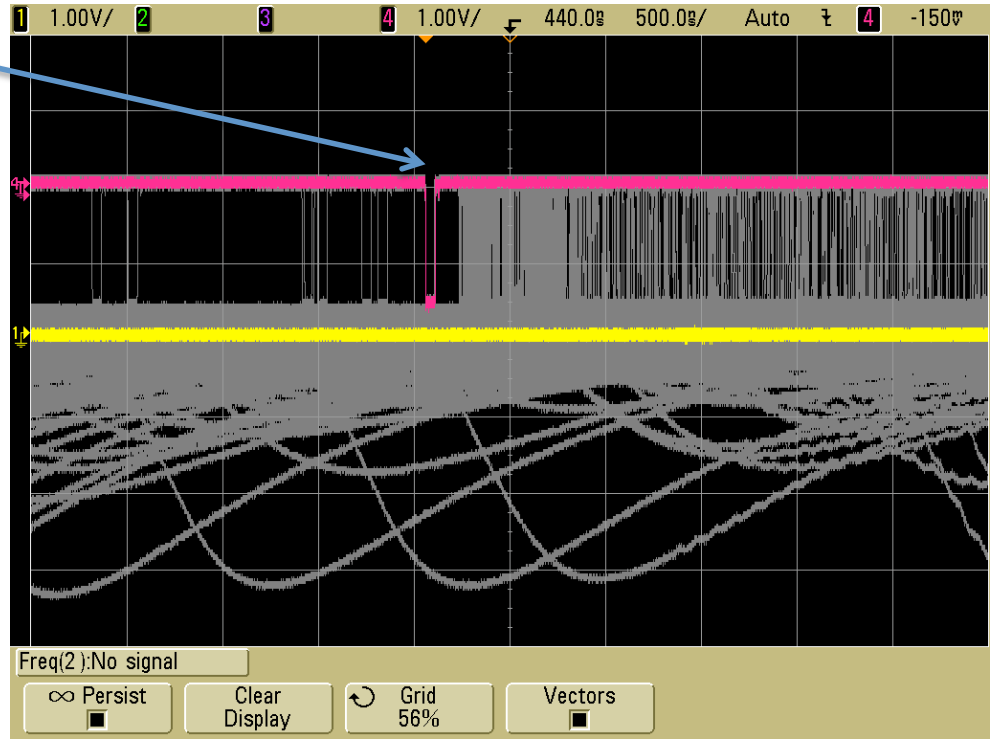


# Trigger Timing w/ 90Sr

delay:2BCLK

Back Up Scintillator Trigger

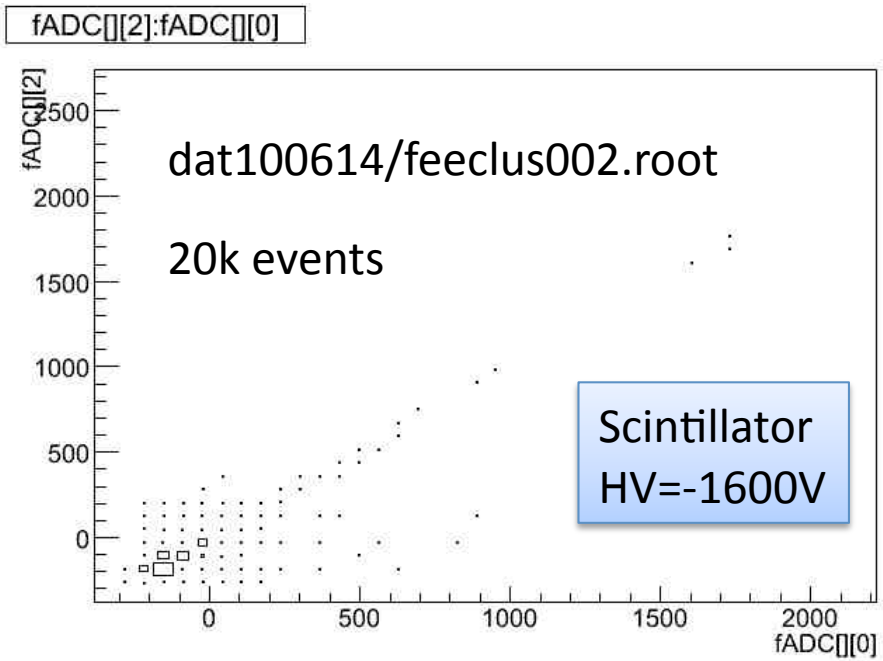


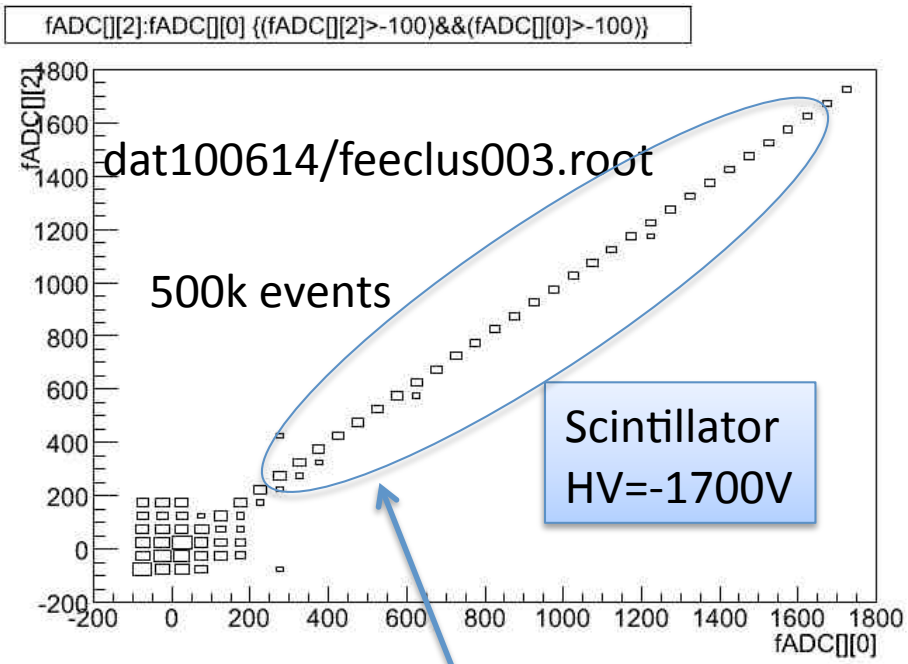



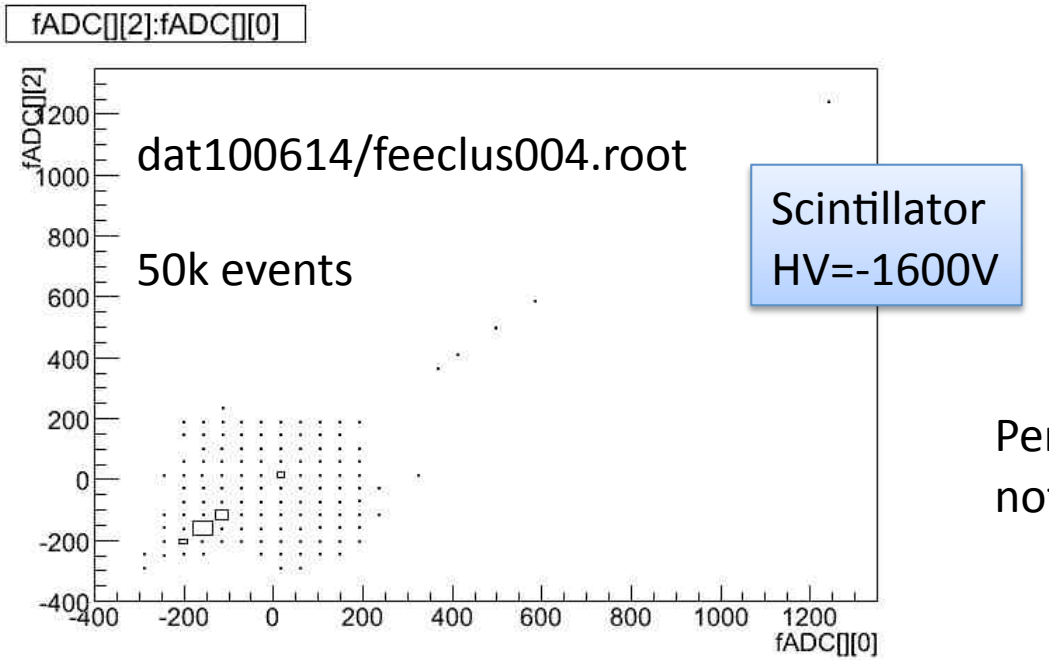

Strip#26 (E47)

Difficult to observe correlated signal with trigger on scope.

# ADC[2] .vs ADC[0]



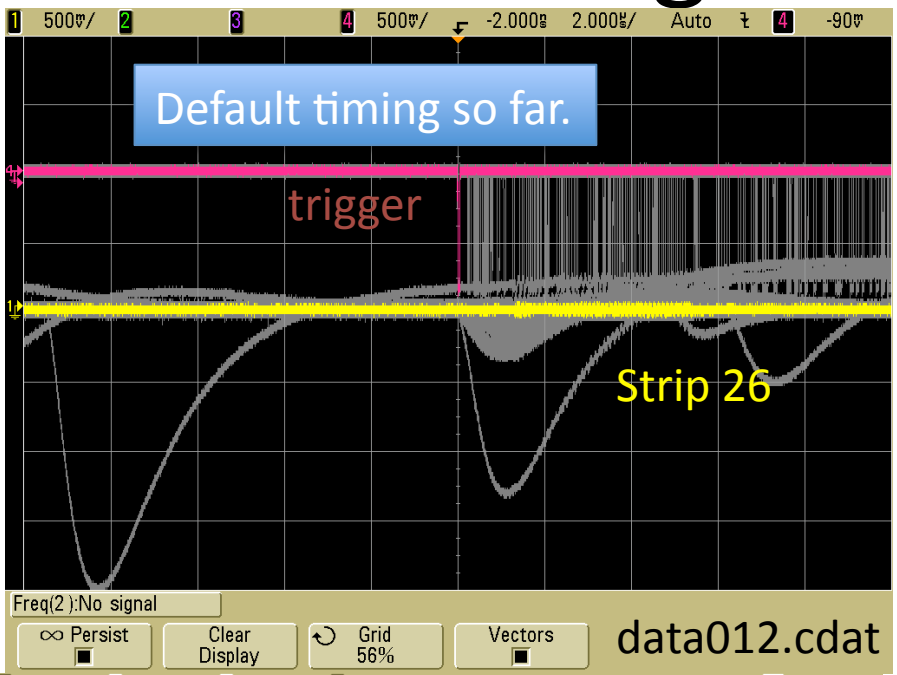



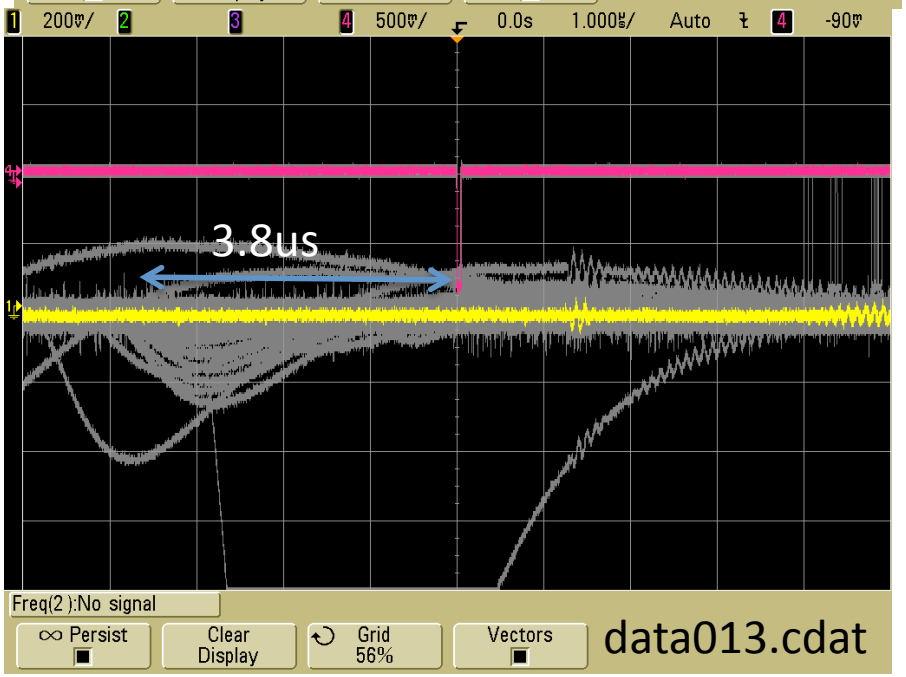



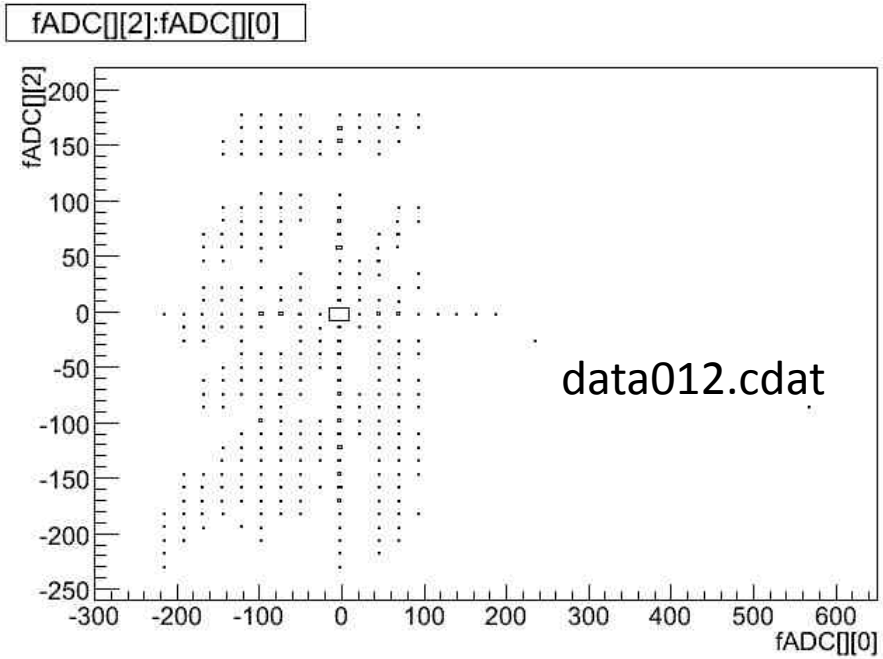

Only ADC2=ADC0 exists in large ADC region.

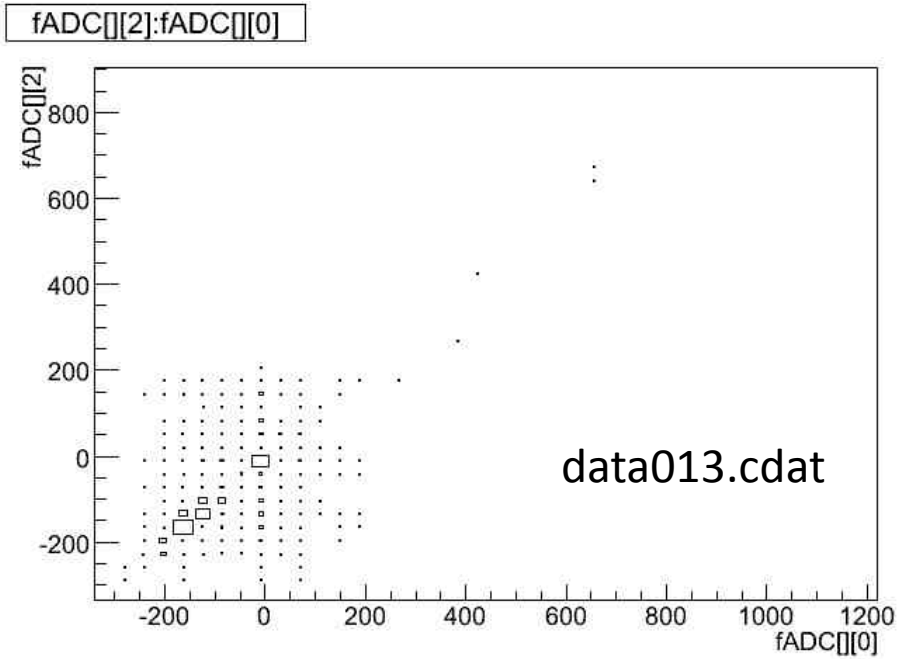
Perhaps chamber penetrated trigger may not cause large pulse in chamber?

# Timing Tune with Cosmic

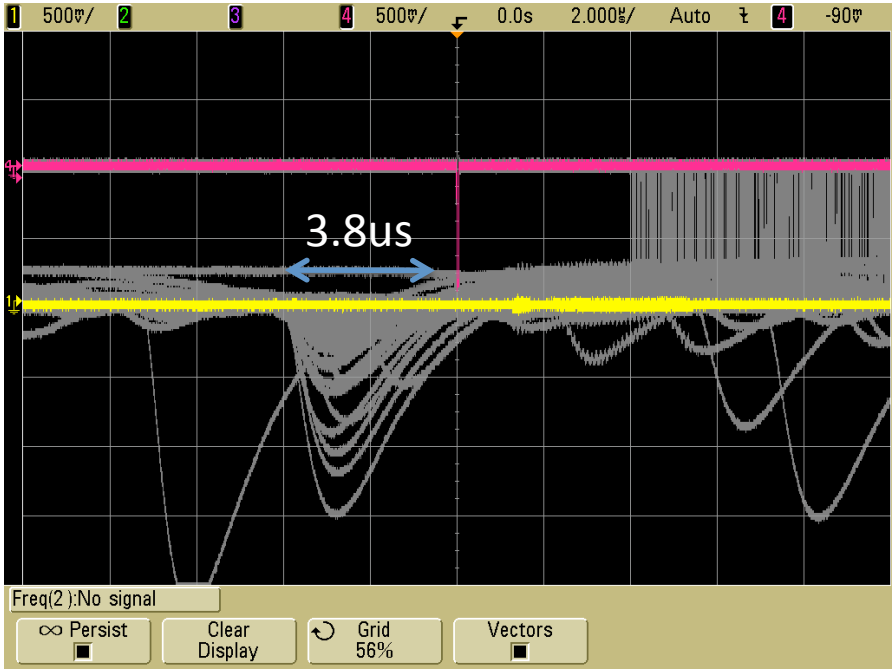


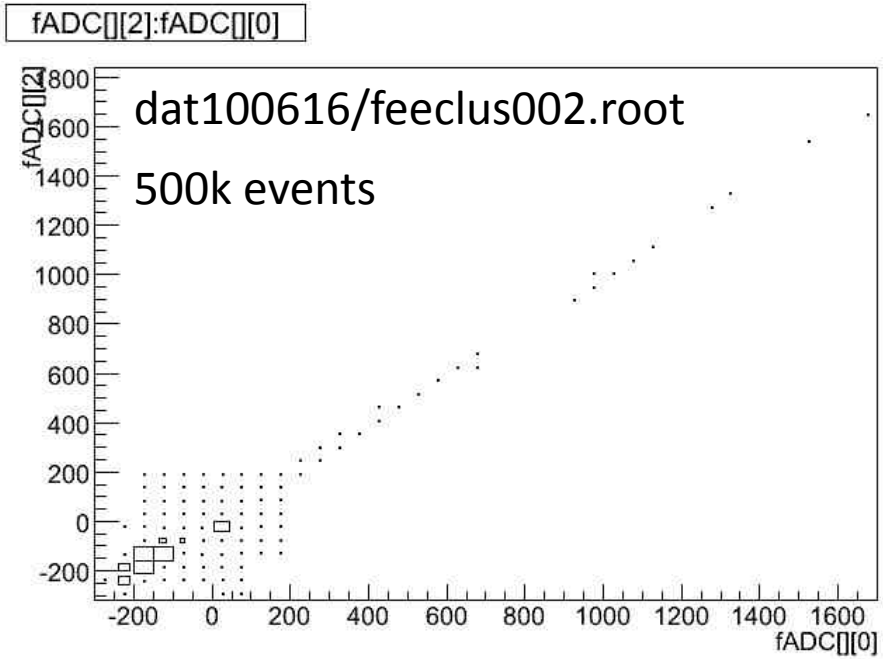



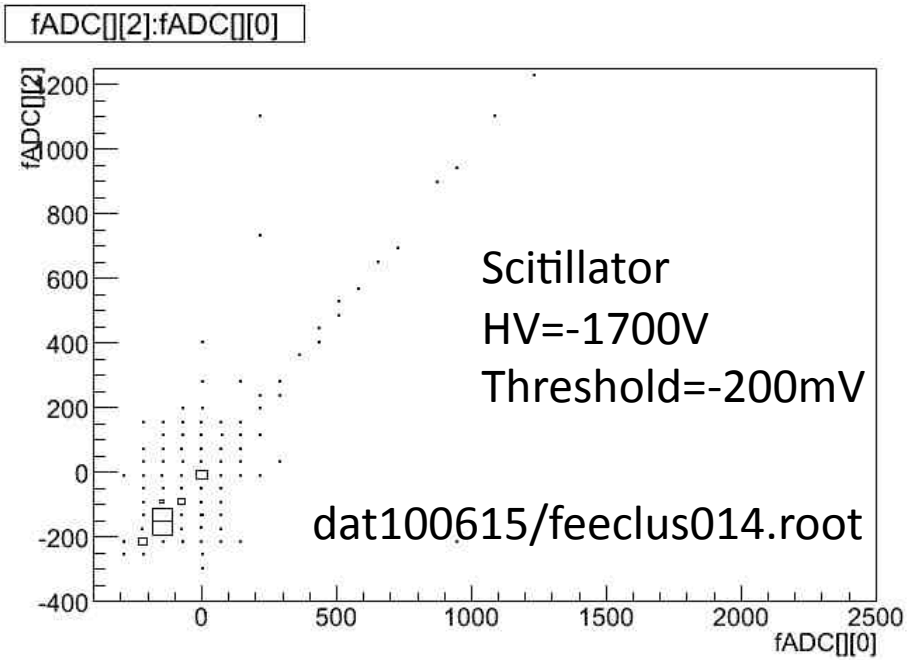



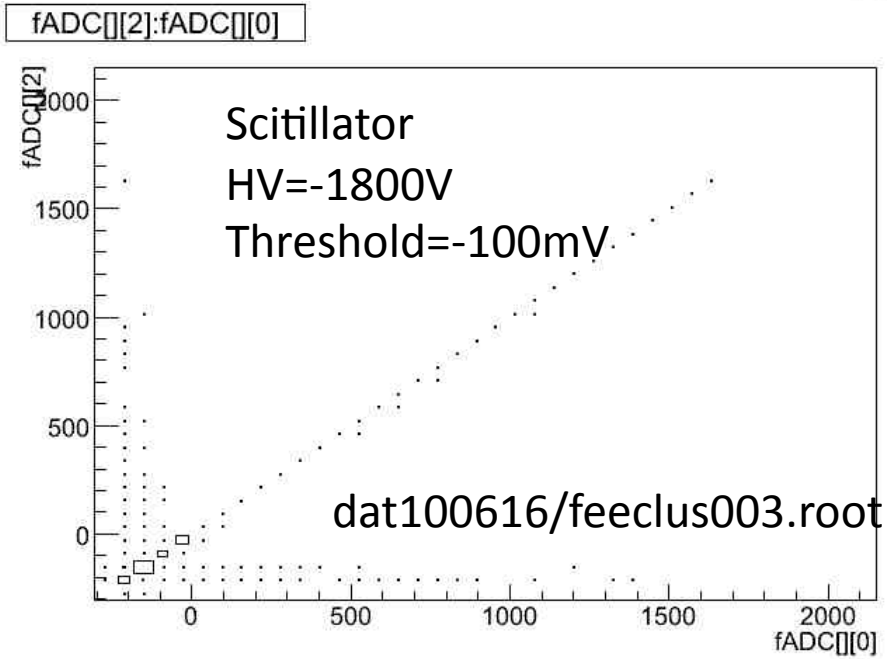
# More Statistics w/ Cosmic



# 90Sr Source (Delay=3.8us)



# Summary

- Trigger timing was tuned with calibration pulse.
- Scintillator trigger timing was also optimized based on calibration timing (3.8us).
- ADC2 .vs ADC0 correlation shows uniform distribution below MIP region (ADC<200). (Should be ADC2~5*ADC0 if correlated timing)
- Beyond MIP region, only ADC2=ADC0 events appears. Now understood.