

Update of Analysis (Calibration of Heavy
Gas Cherenkov Detector)
“SHMS”

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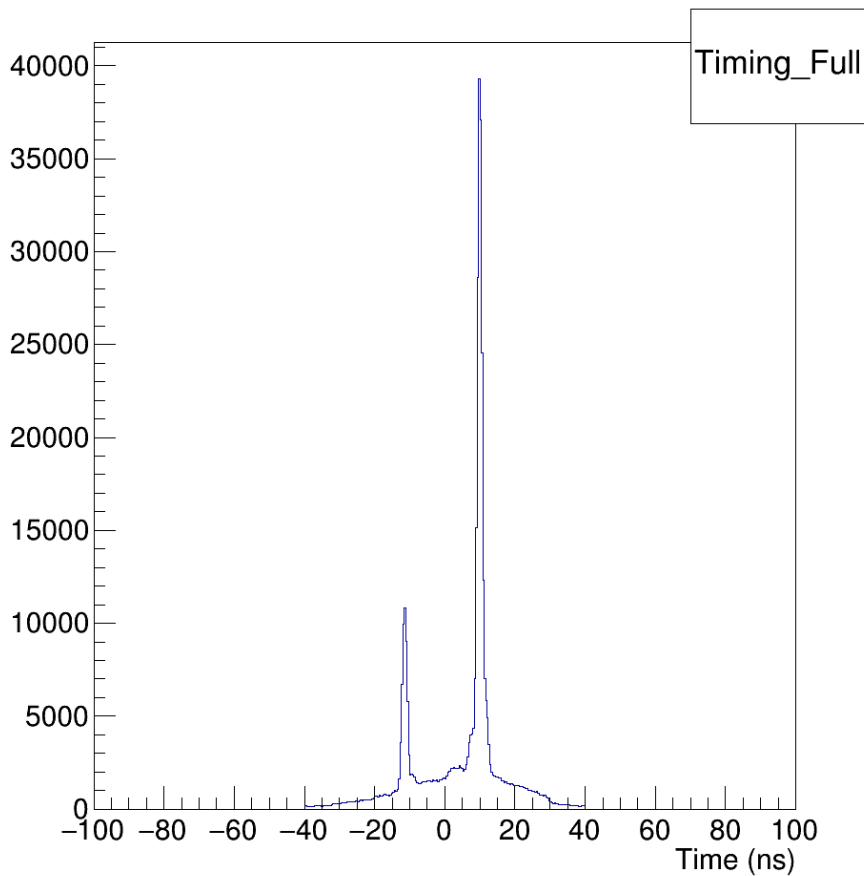
Run Number: 4969

Q2 = 4.4, W = 2.74, x = 0.4 and high epsilon

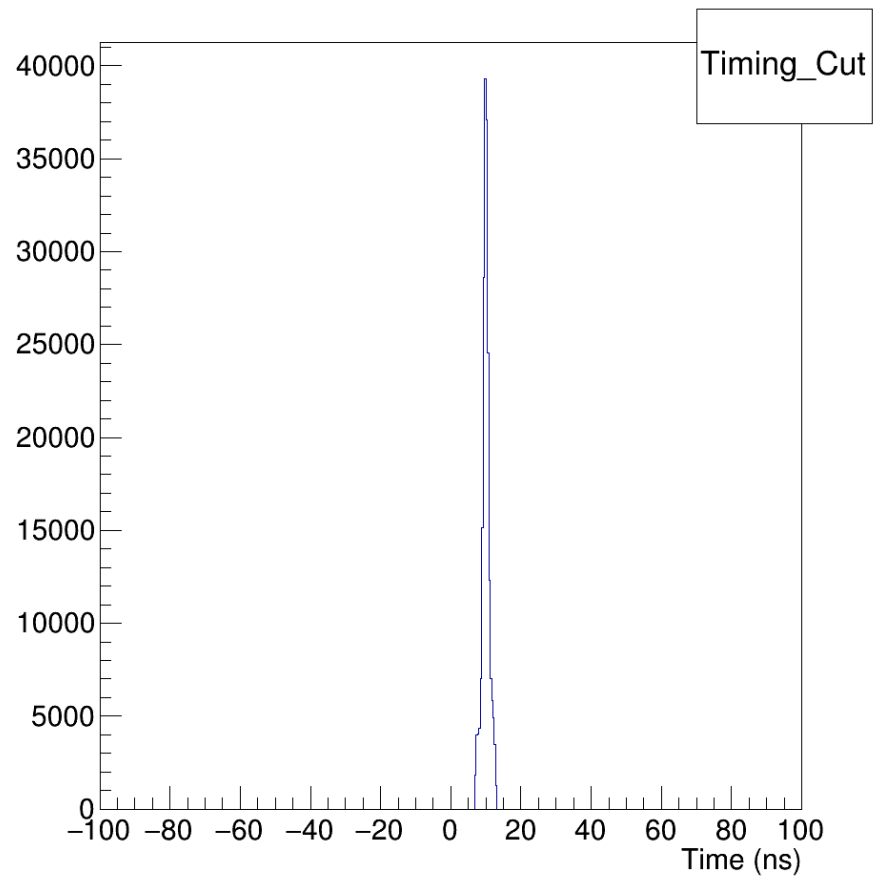
P(SHMS) = 5.389, Eb = 10.6 and current 55

Timing information

Full timing information for events

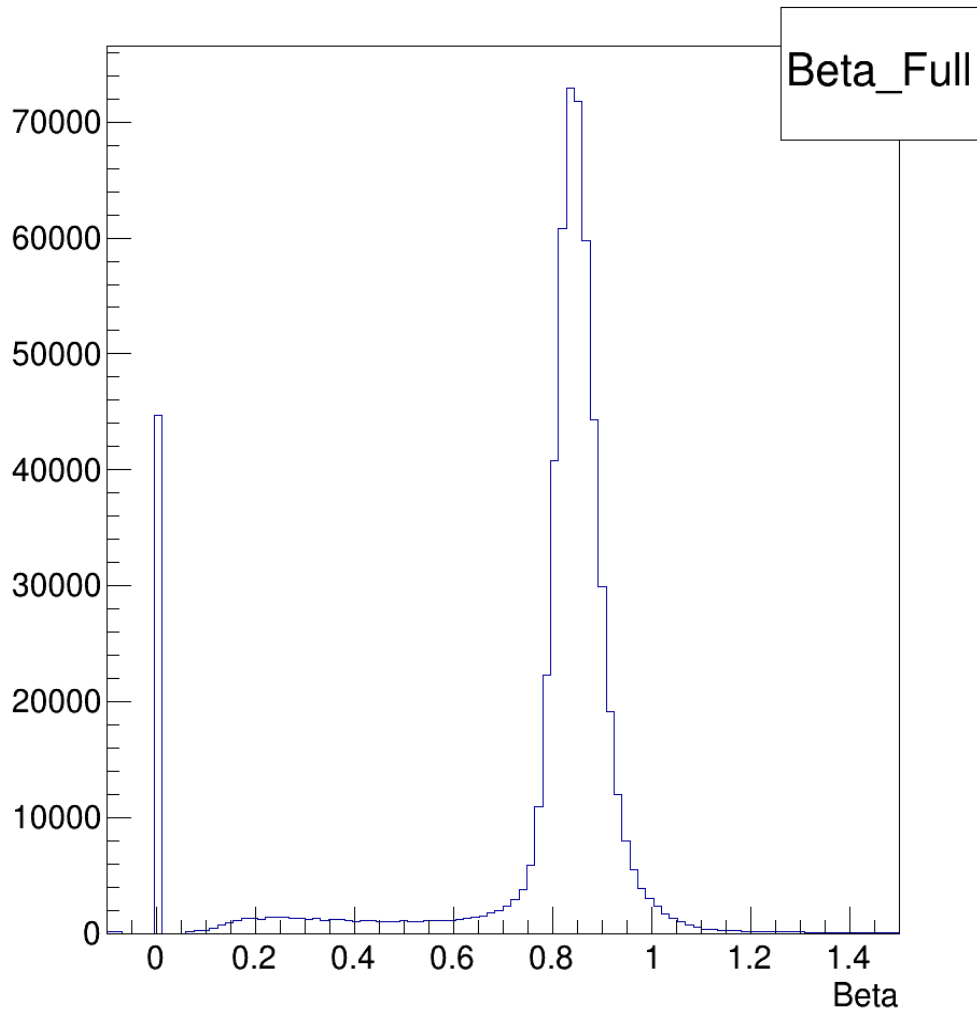


Timing cut used for 'good' hits

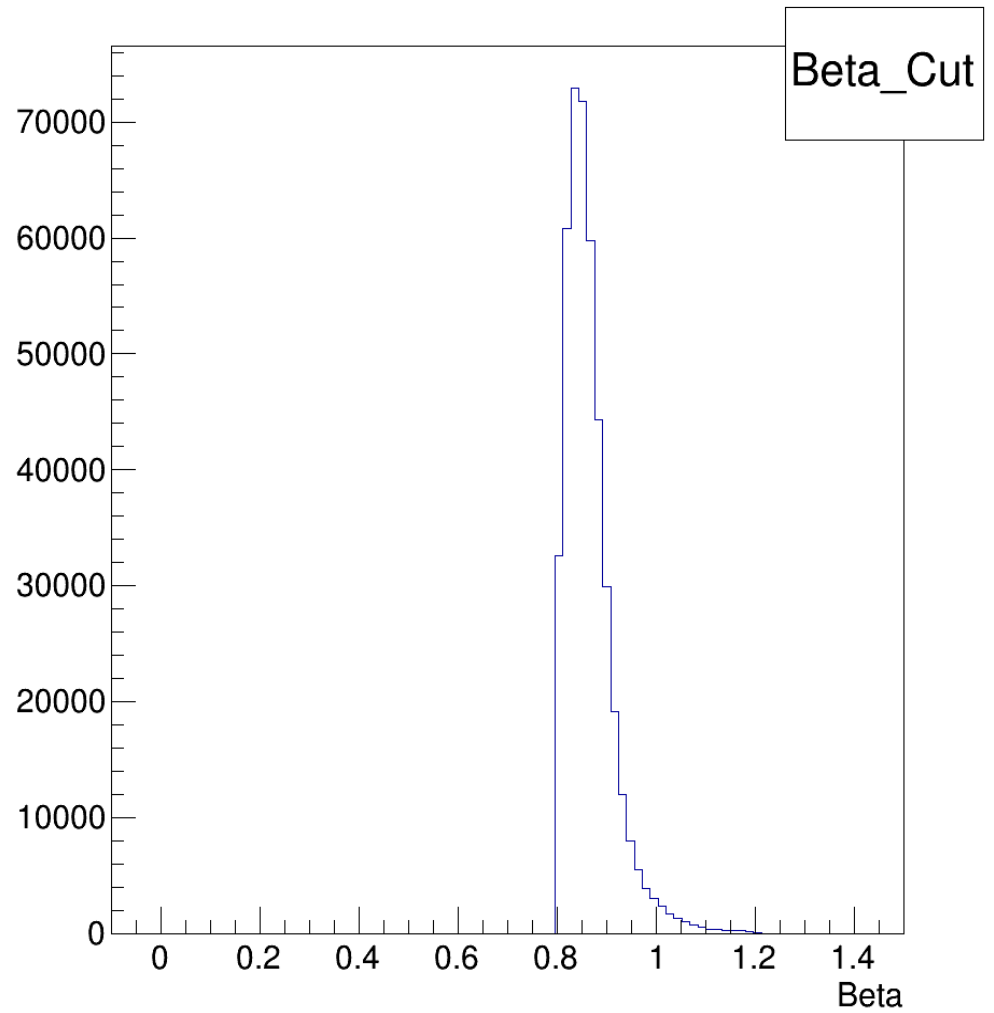


Beta Information

Full beta for events



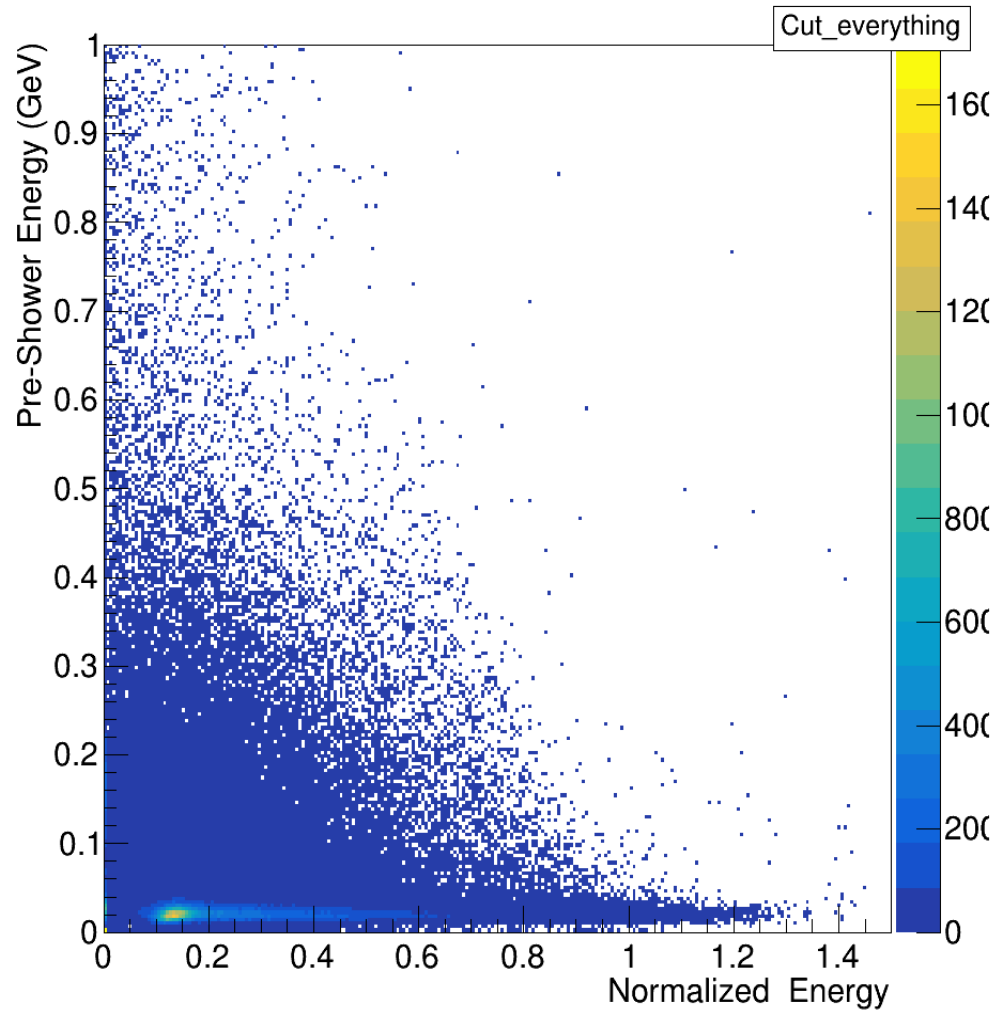
Beta cut used for 'good' hits



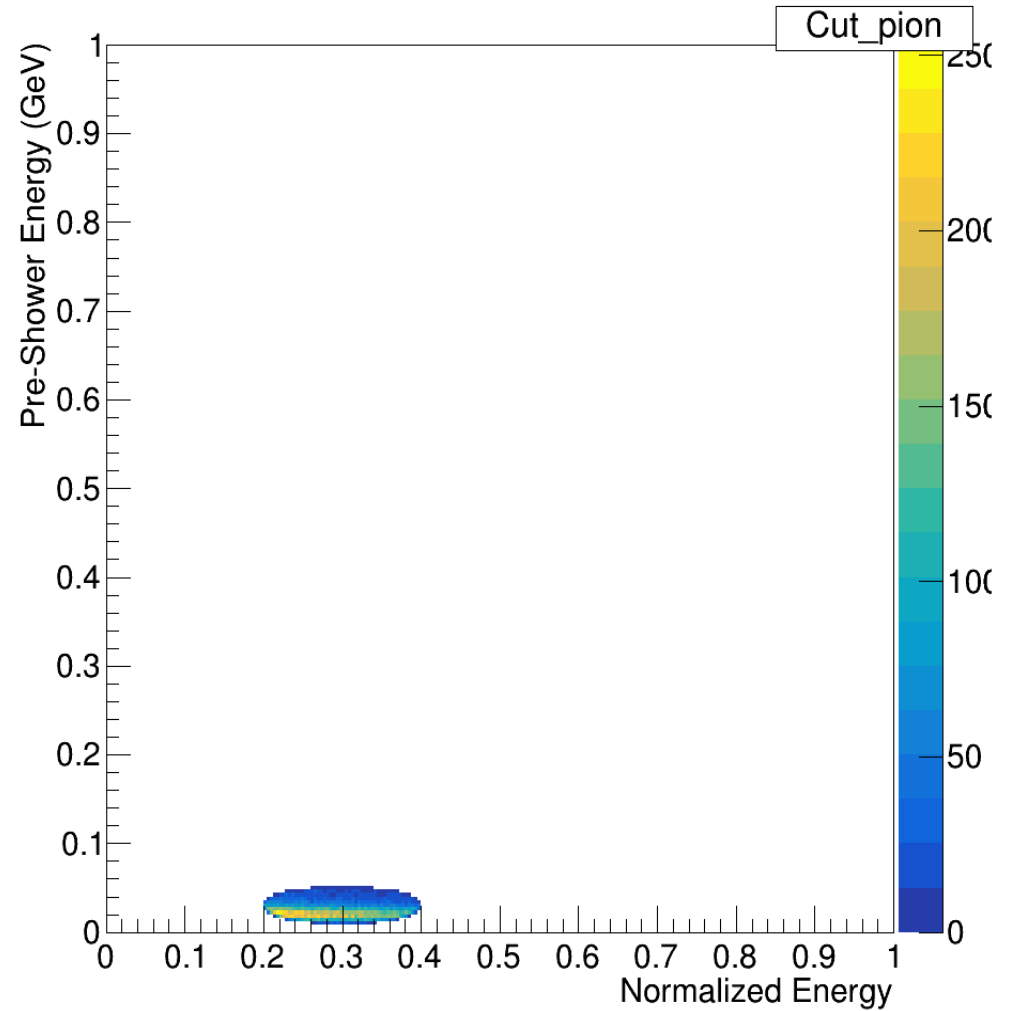
Spectrometer was on positive polarity

PID (Pions selected)

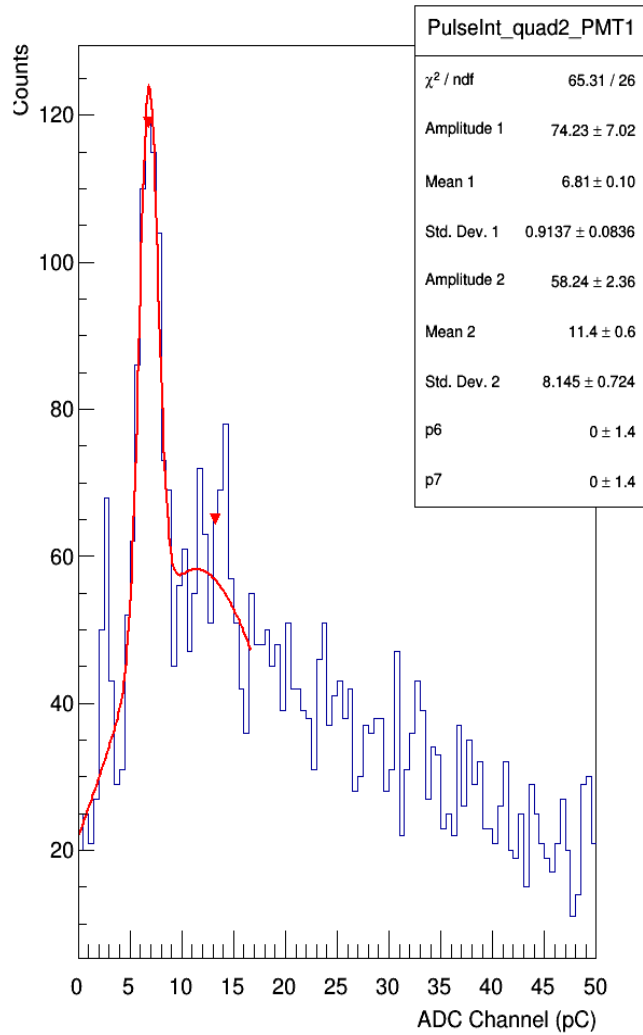
Visualization of no cuts



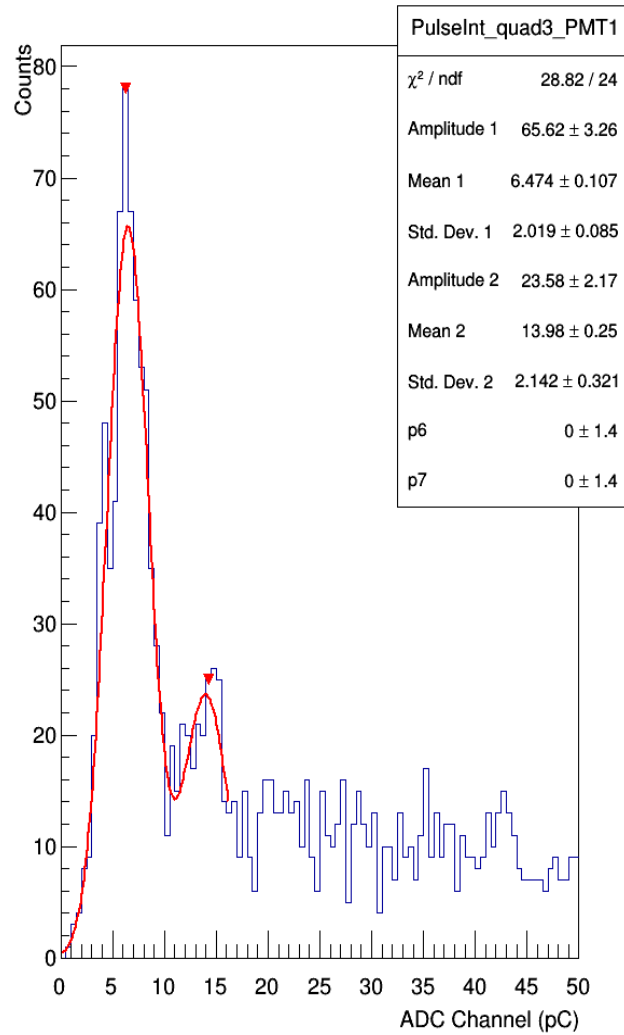
Visualization of pion cut



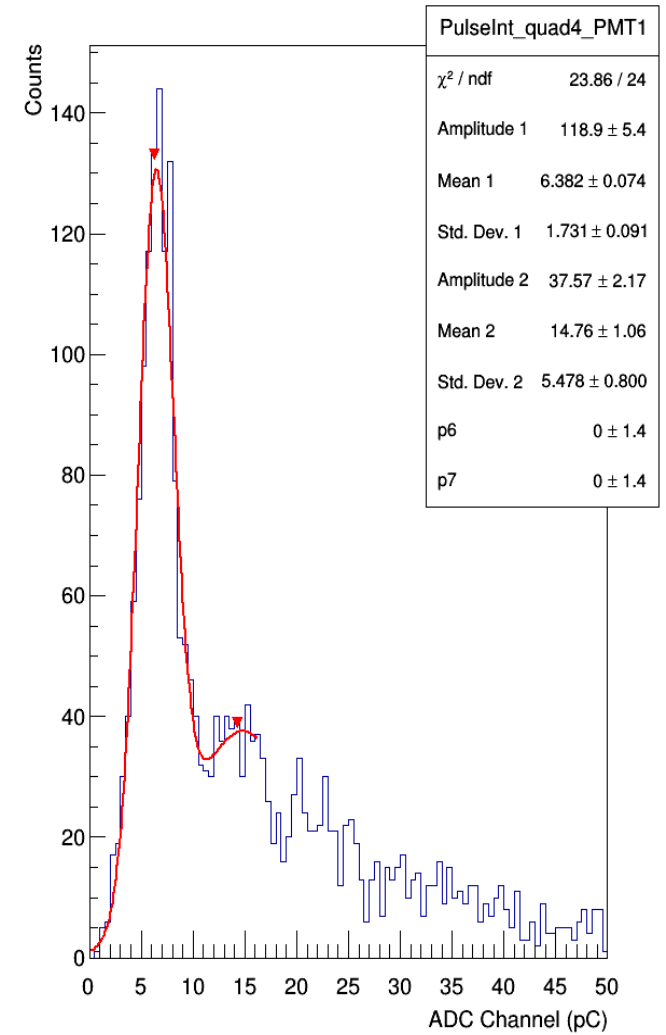
Pulse Integral PMT1 quad2



Pulse Integral PMT1 quad3

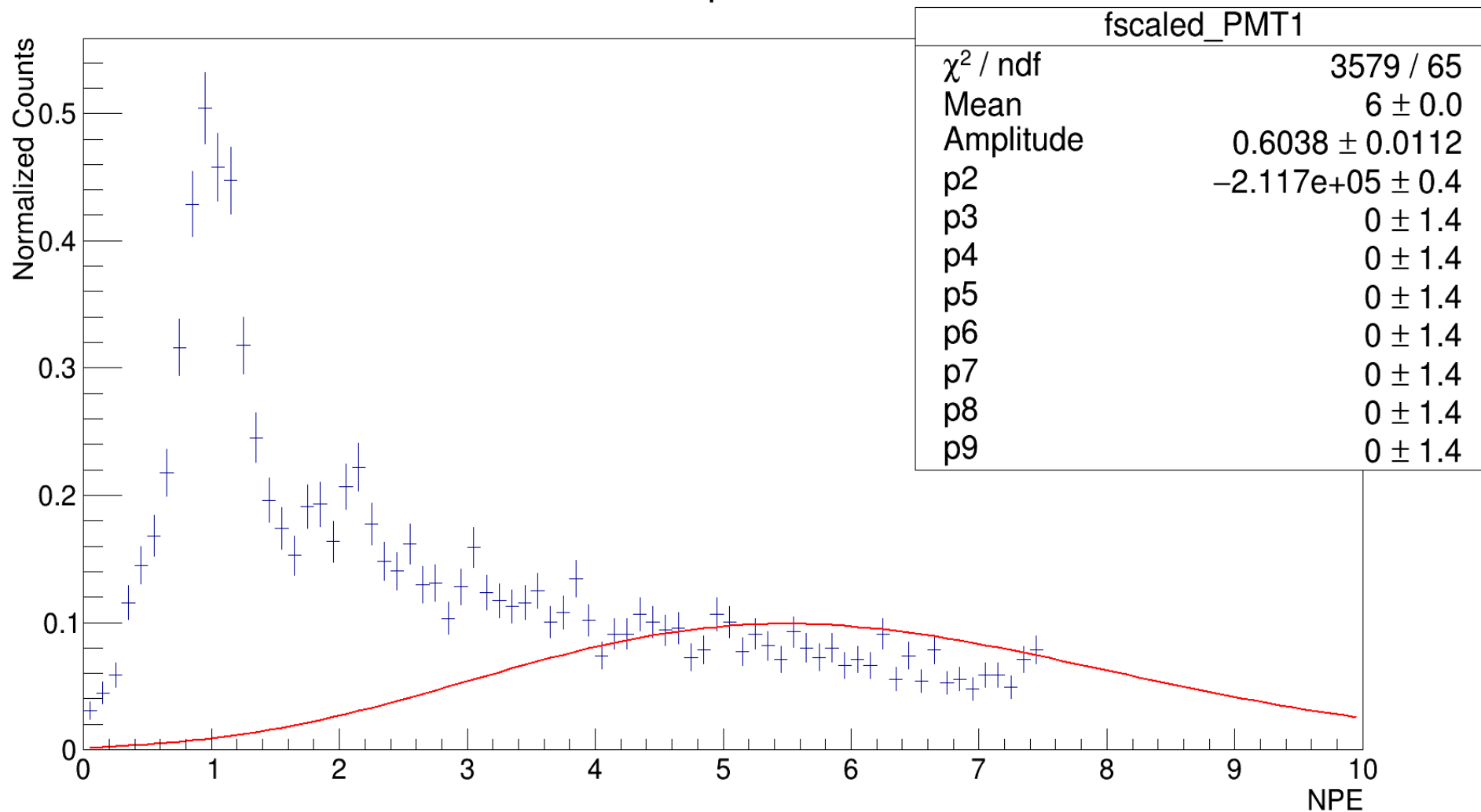


Pulse Integral PMT1 quad4

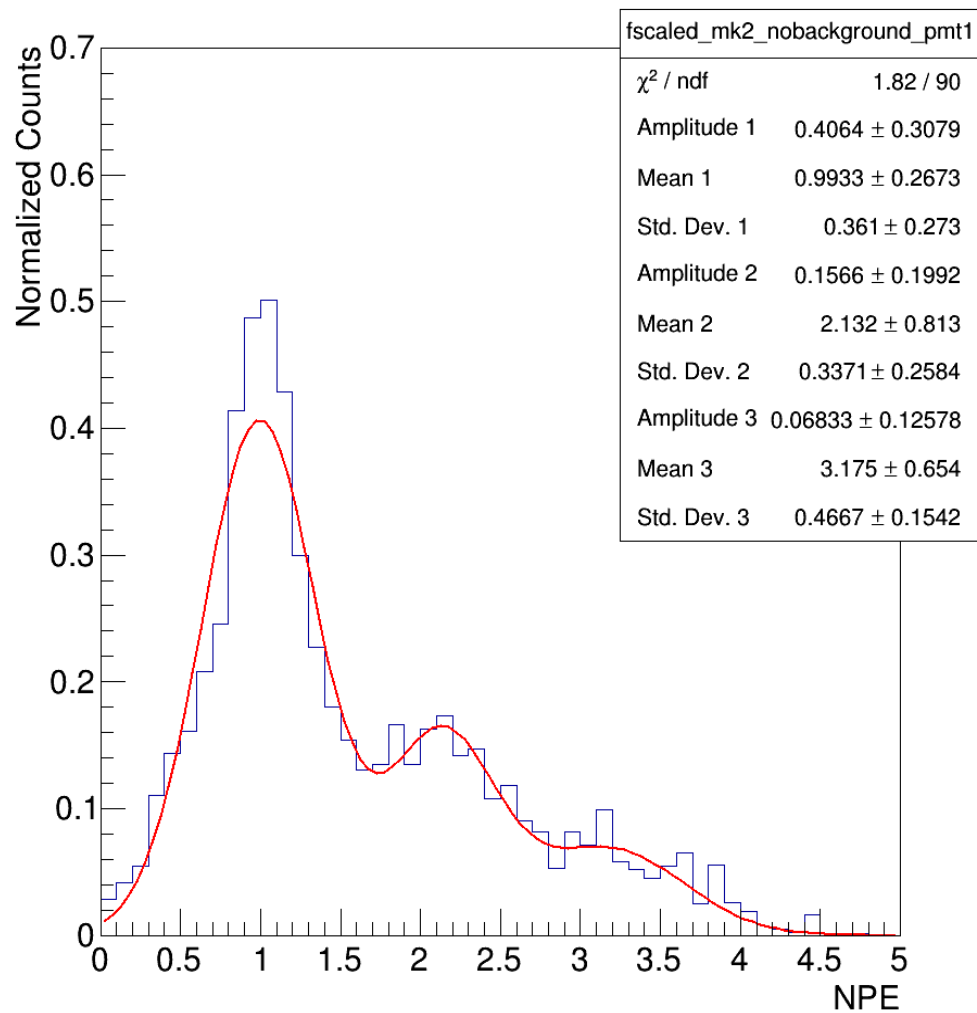


Scaled ADC and fit with Poisson function to remove the higher number of photo - electron

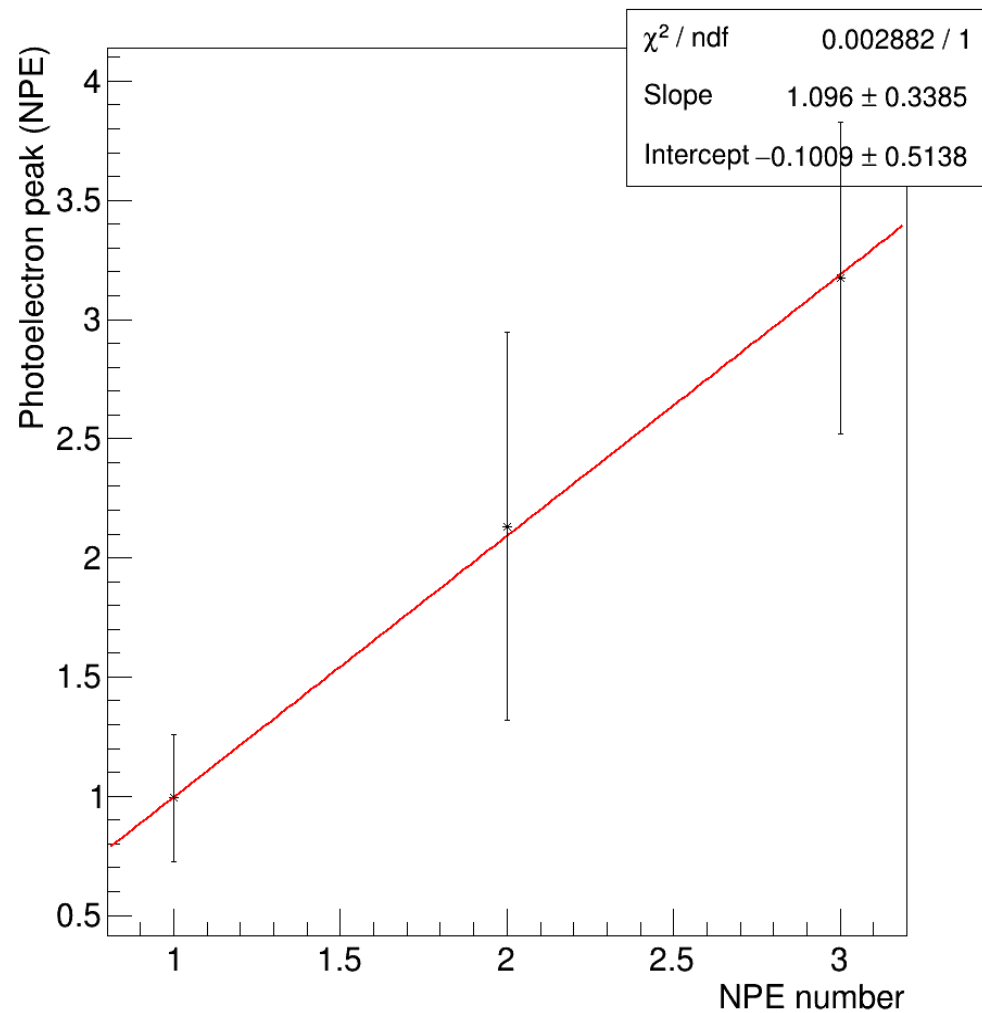
Scaled ADC spectra for PMT1



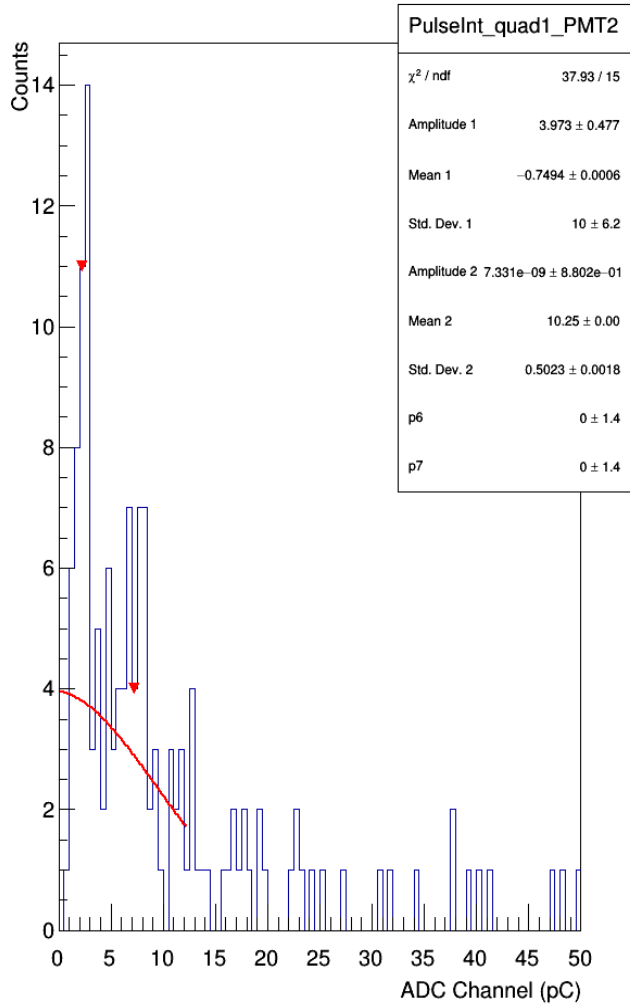
NPE spectra background removed for PMT1



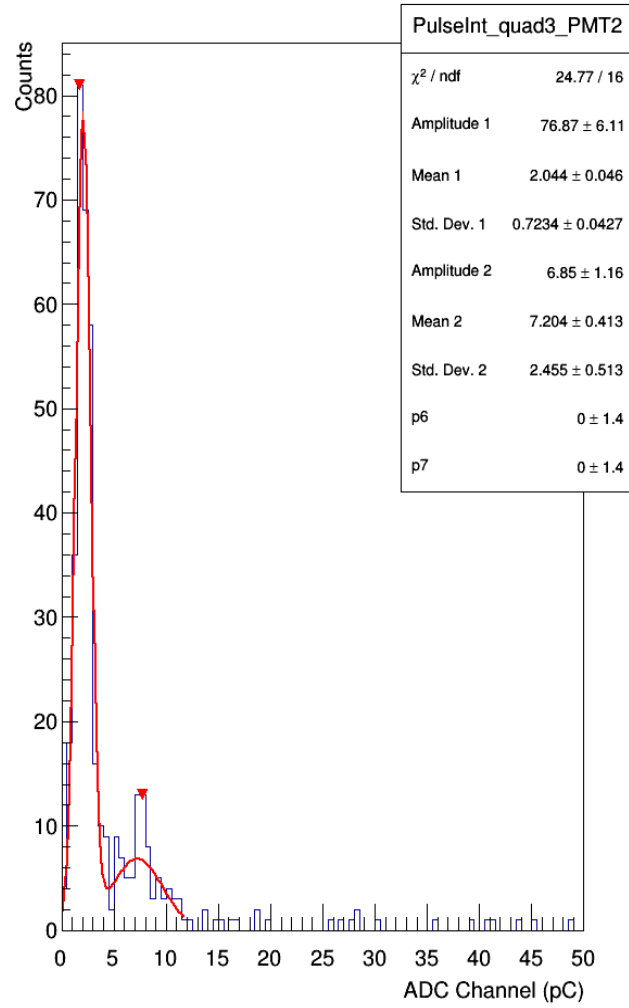
Graph



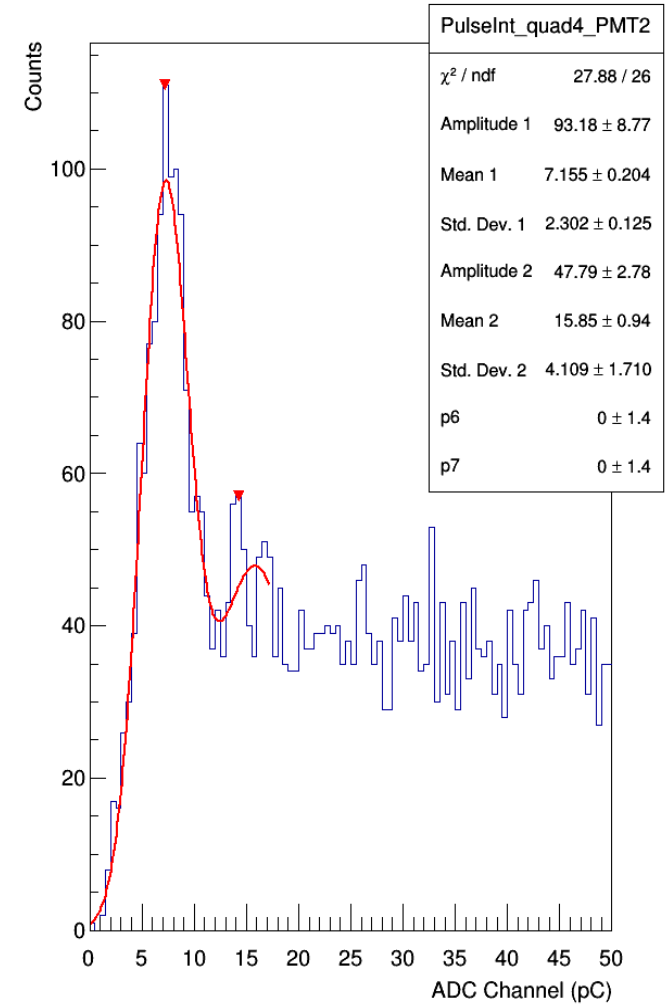
Pulse Integral PMT2 quad1



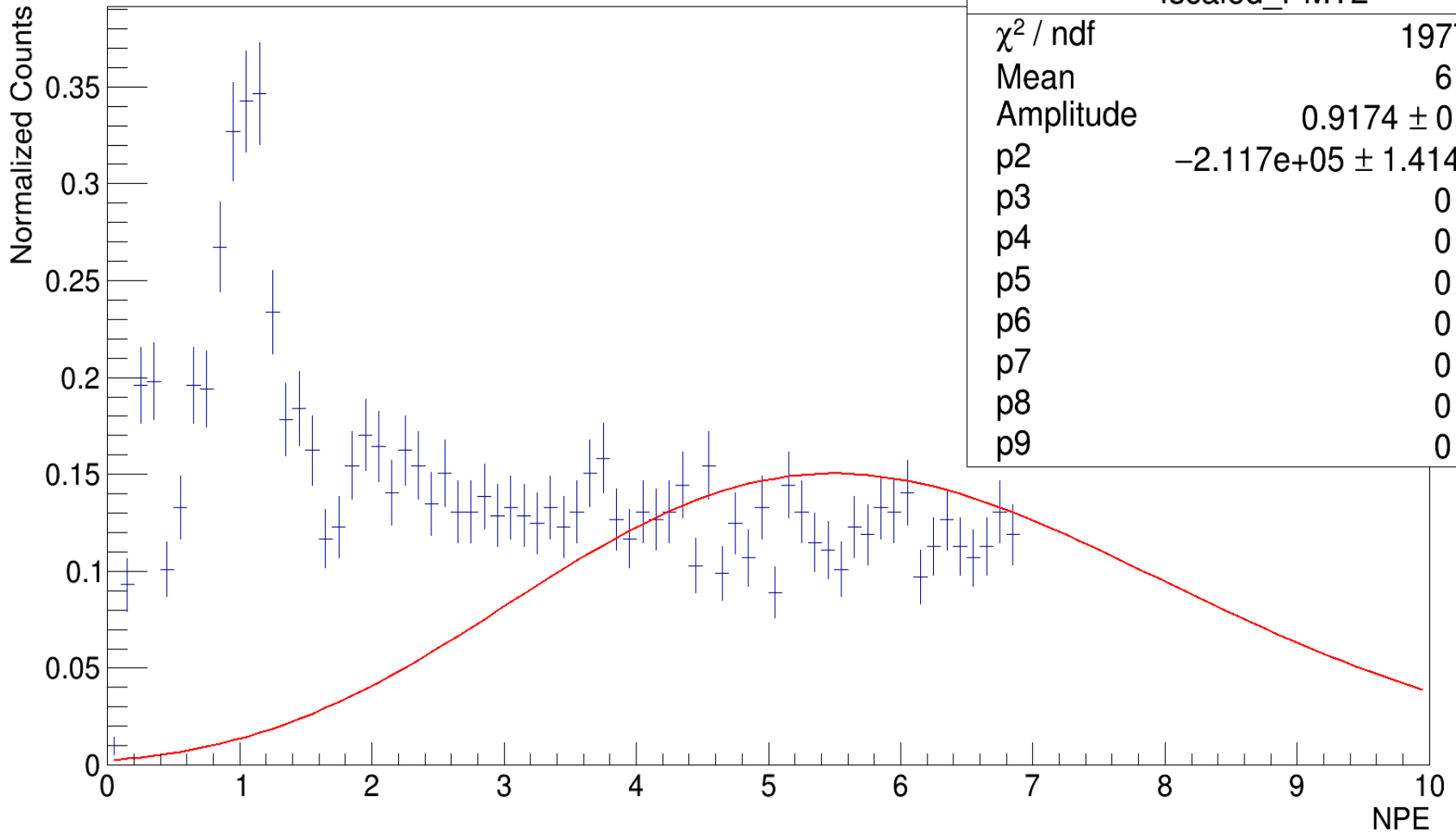
Pulse Integral PMT2 quad3



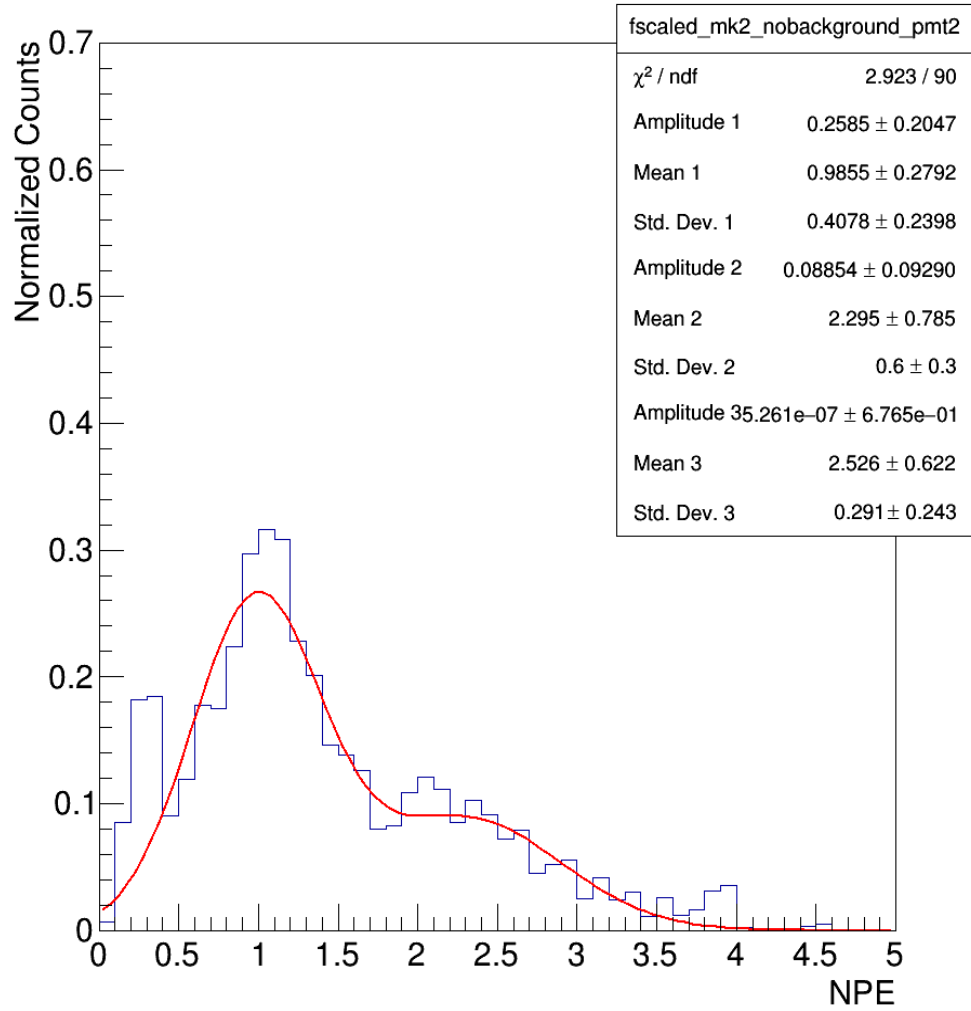
Pulse Integral PMT2 quad4



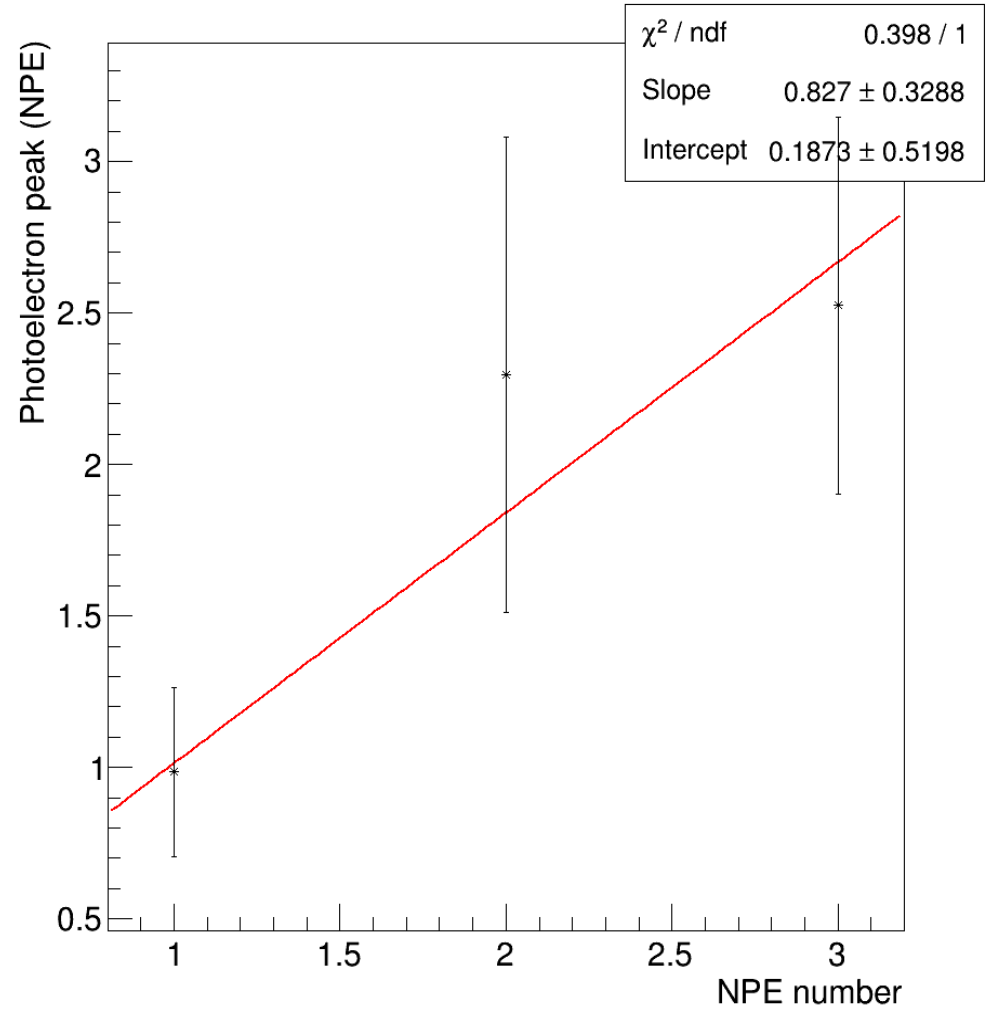
Scaled ADC spectra for PMT2



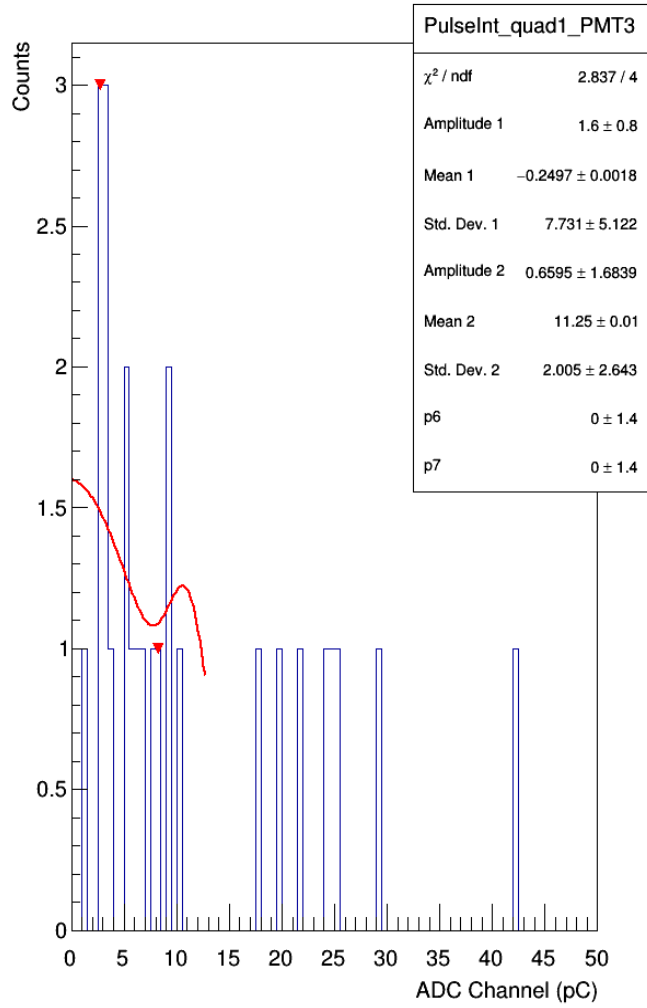
NPE spectra background removed for PMT2



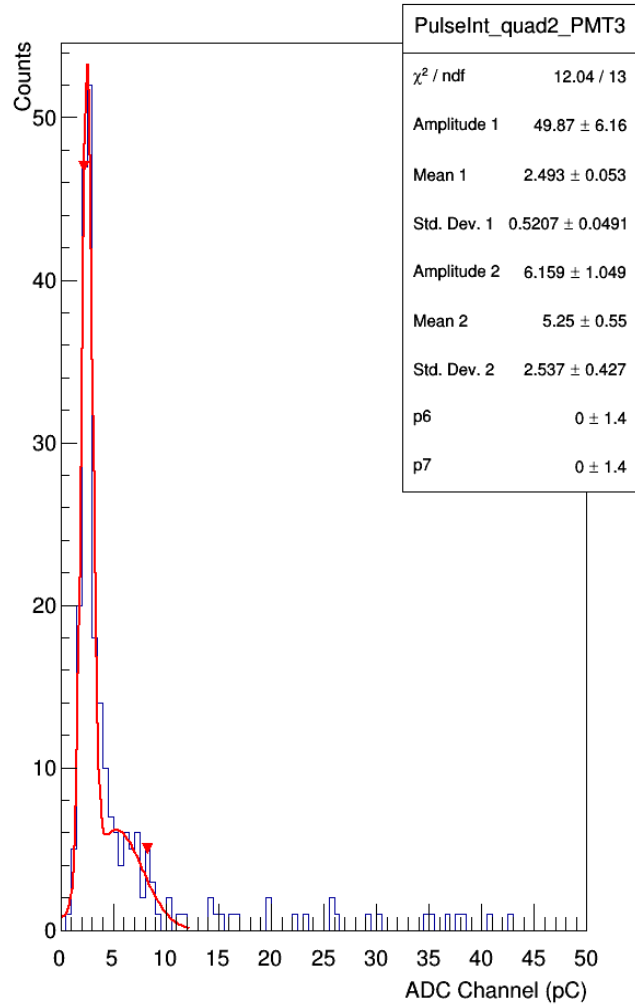
Graph



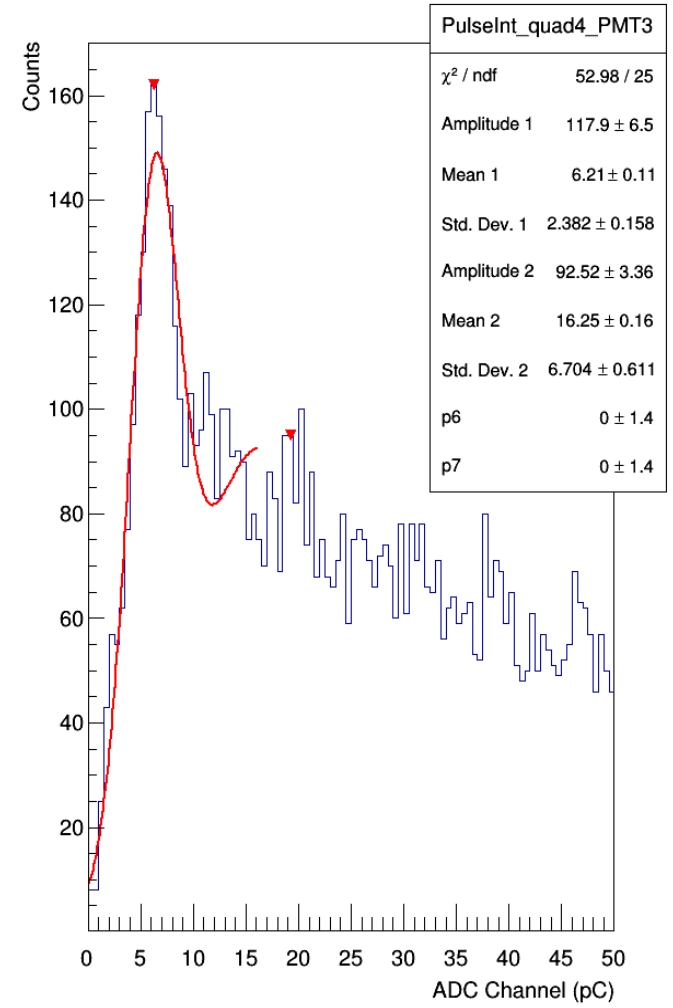
Pulse Integral PMT3 quad1



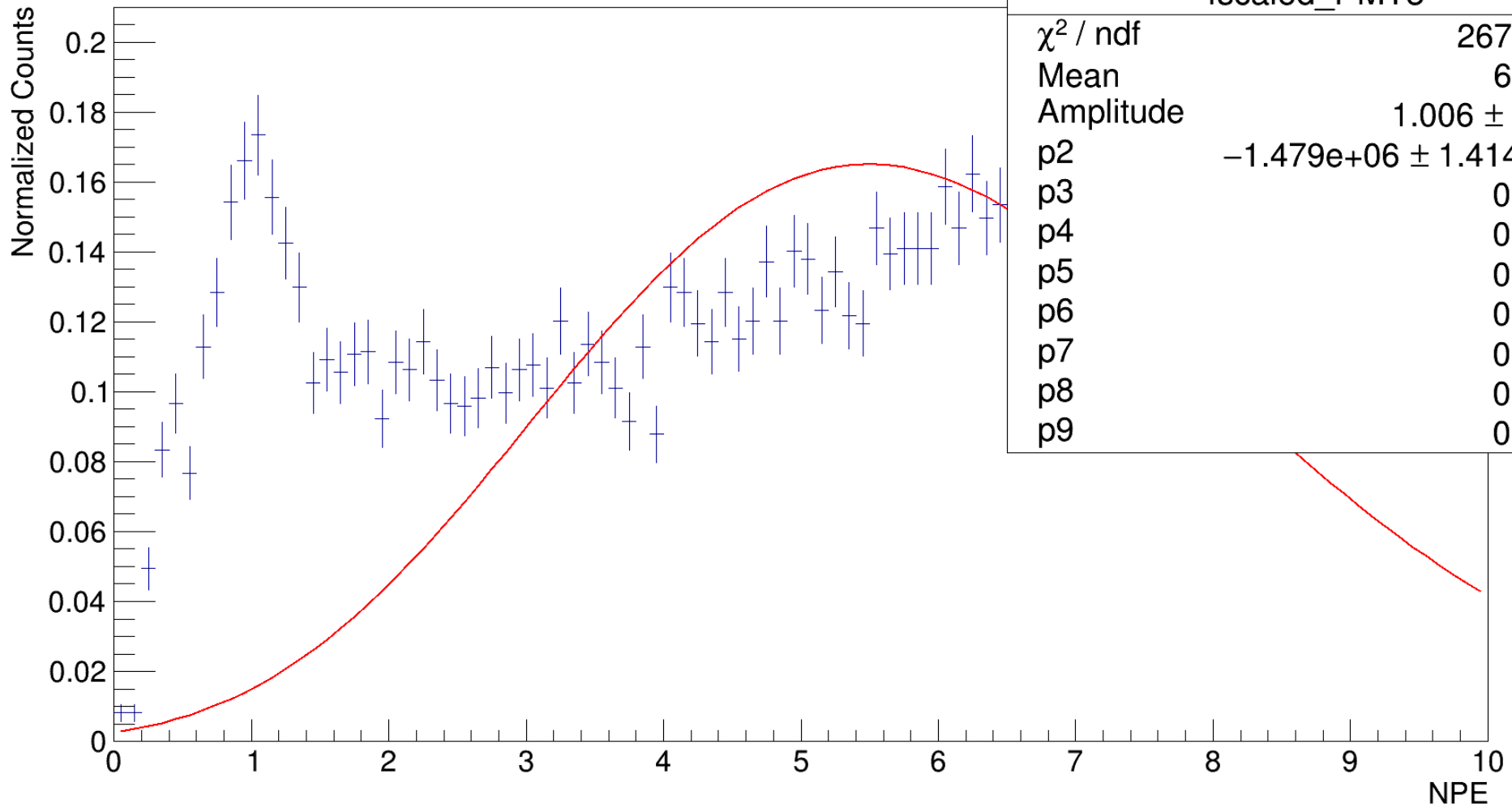
Pulse Integral PMT3 quad2



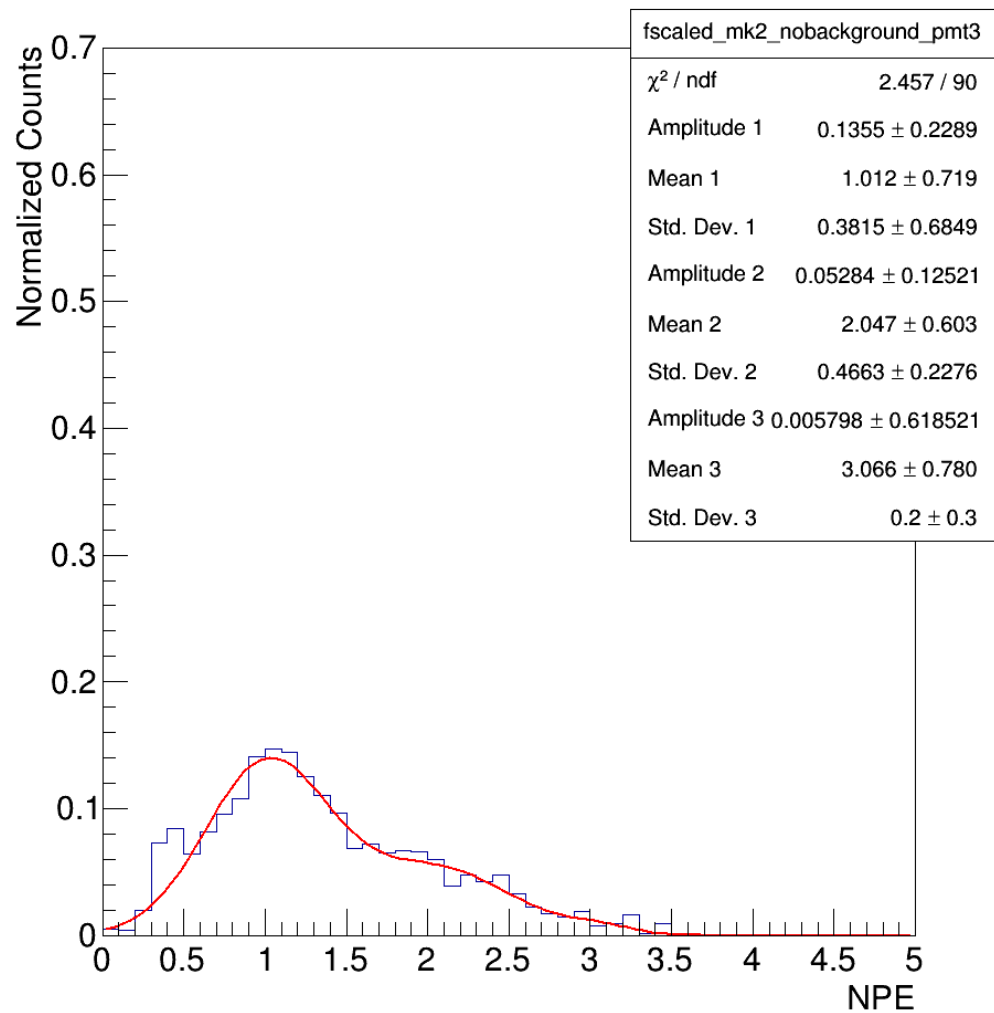
Pulse Integral PMT3 quad4



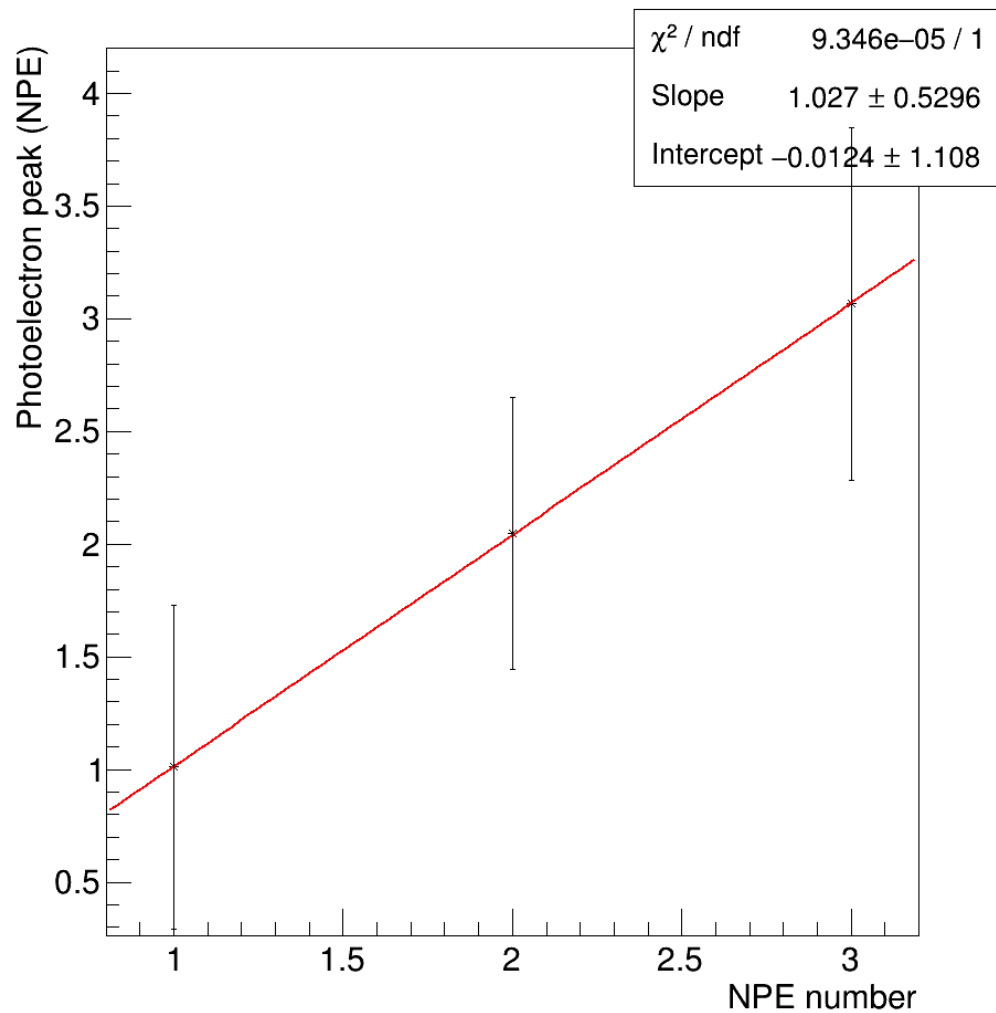
Scaled ADC spectra for PMT3



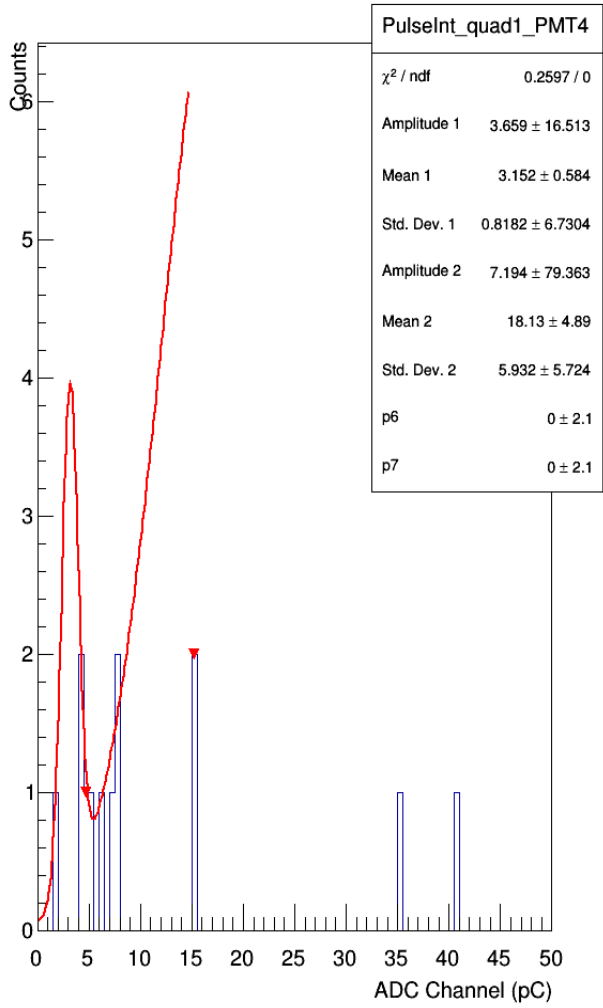
NPE spectra background removed for PMT3



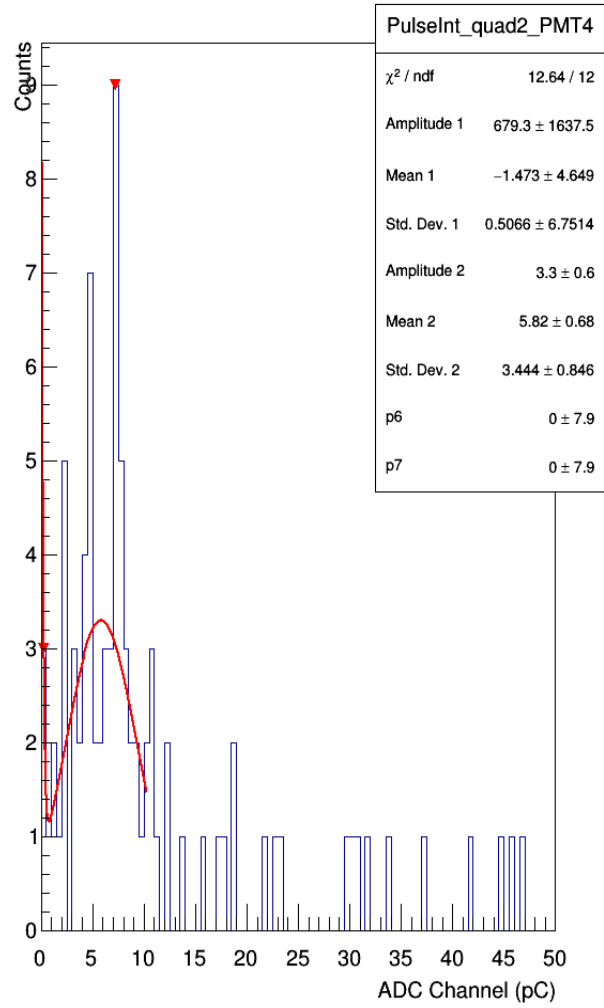
Graph



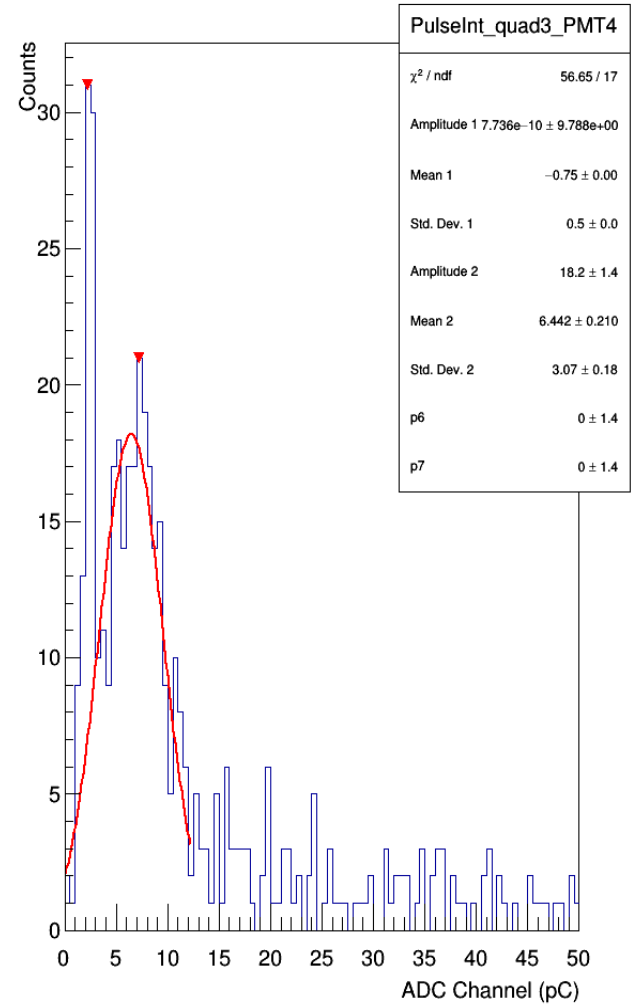
Pulse Integral PMT4 quad1



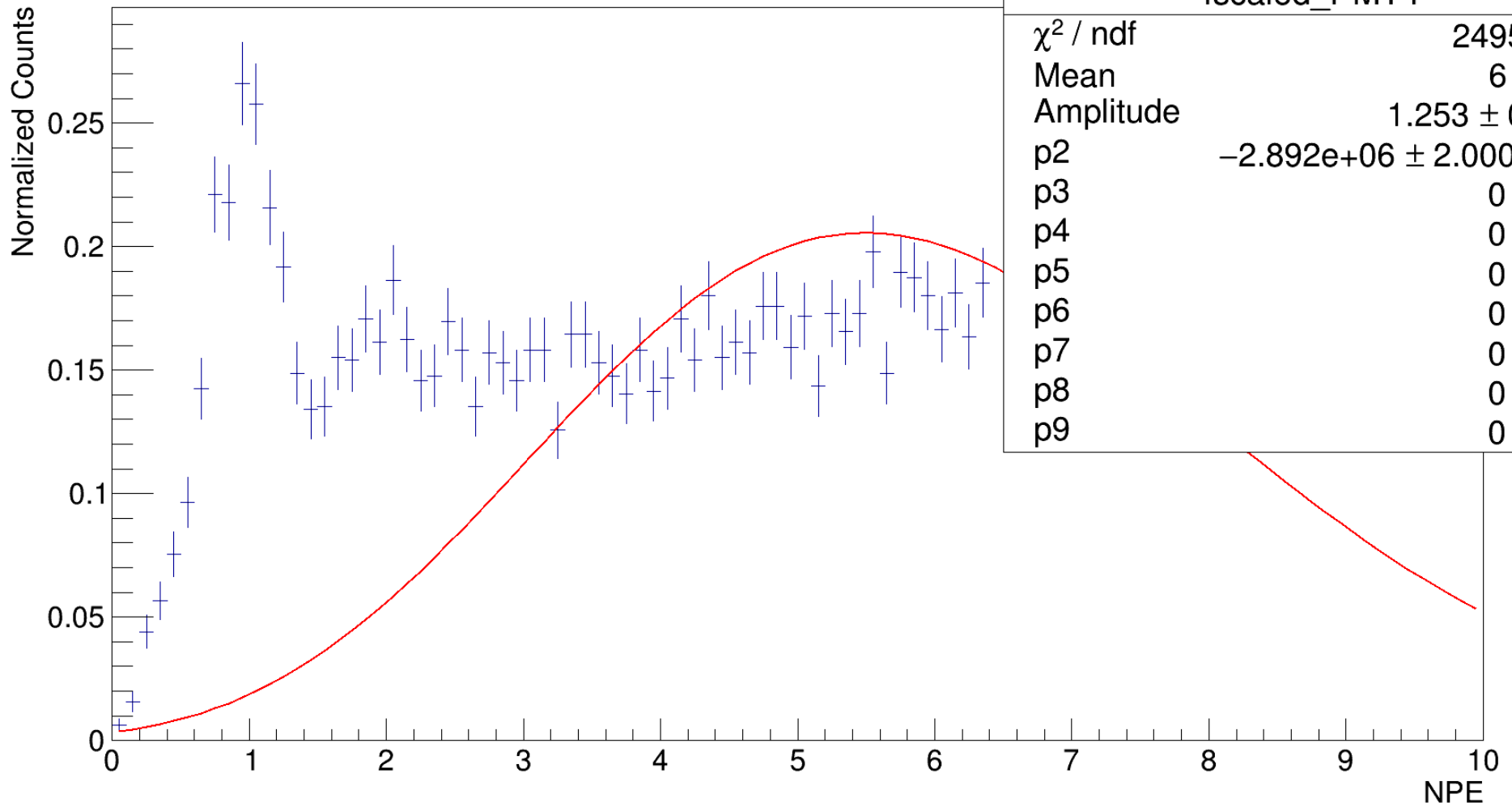
Pulse Integral PMT4 quad2



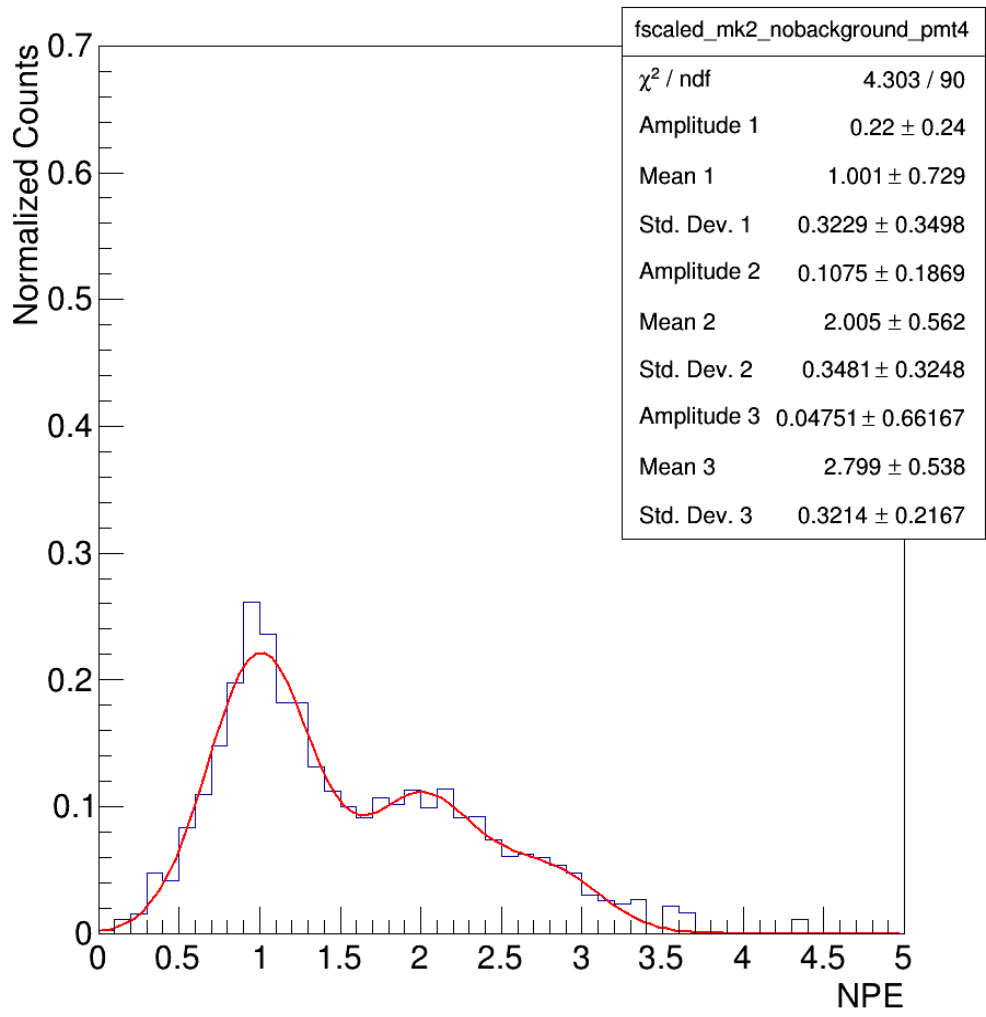
Pulse Integral PMT4 quad3



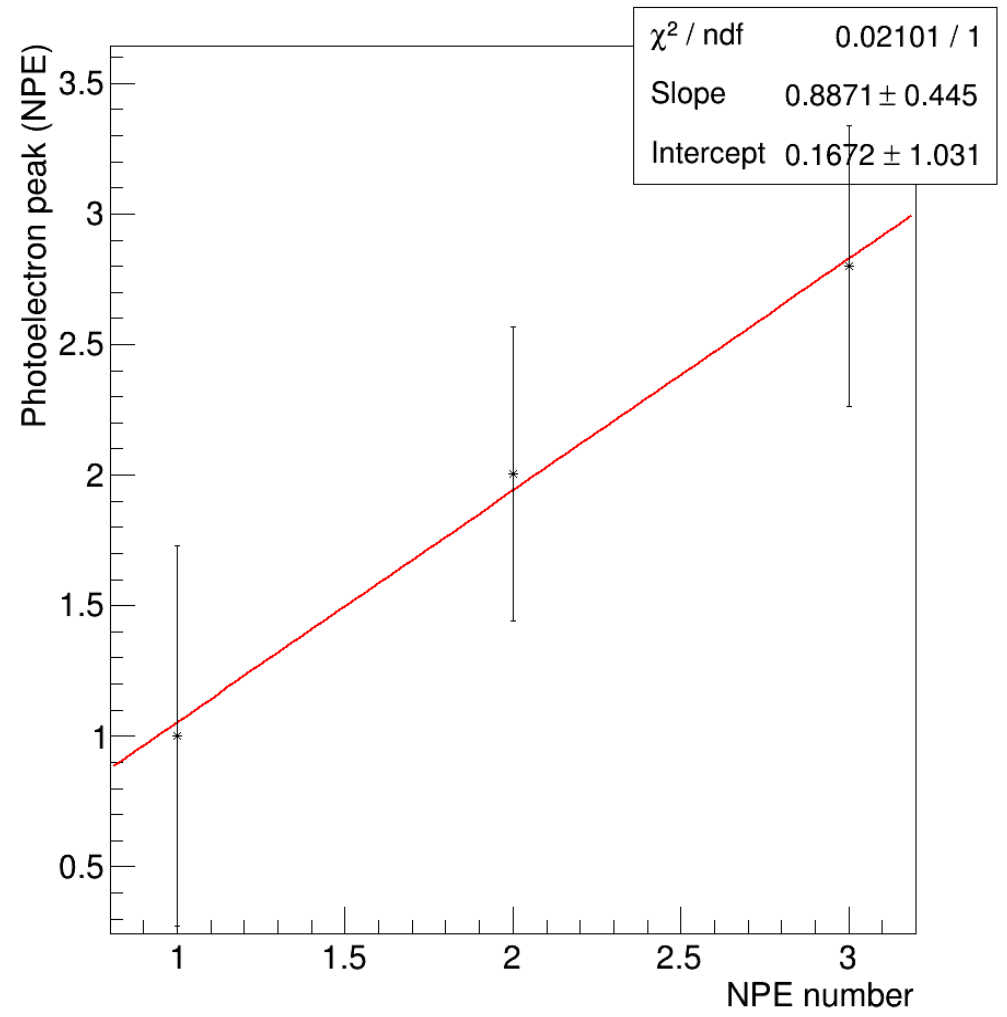
Scaled ADC spectra for PMT4



NPE spectra background removed for PMT4



Graph



Calibration constants:

PMT1: 6.596

PMT2: 7.155

PMT3: 6.210

PMT4: 7.814