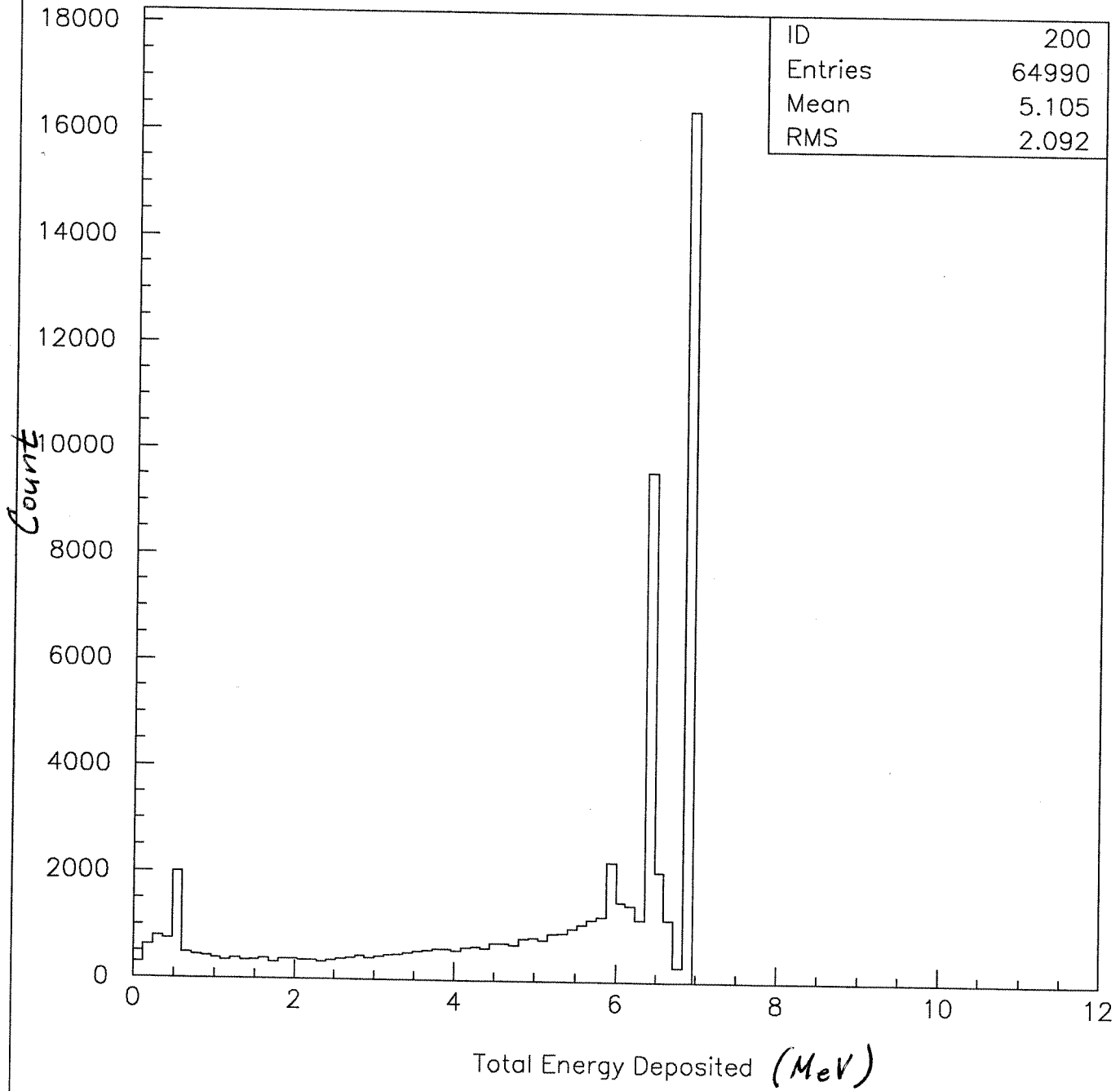
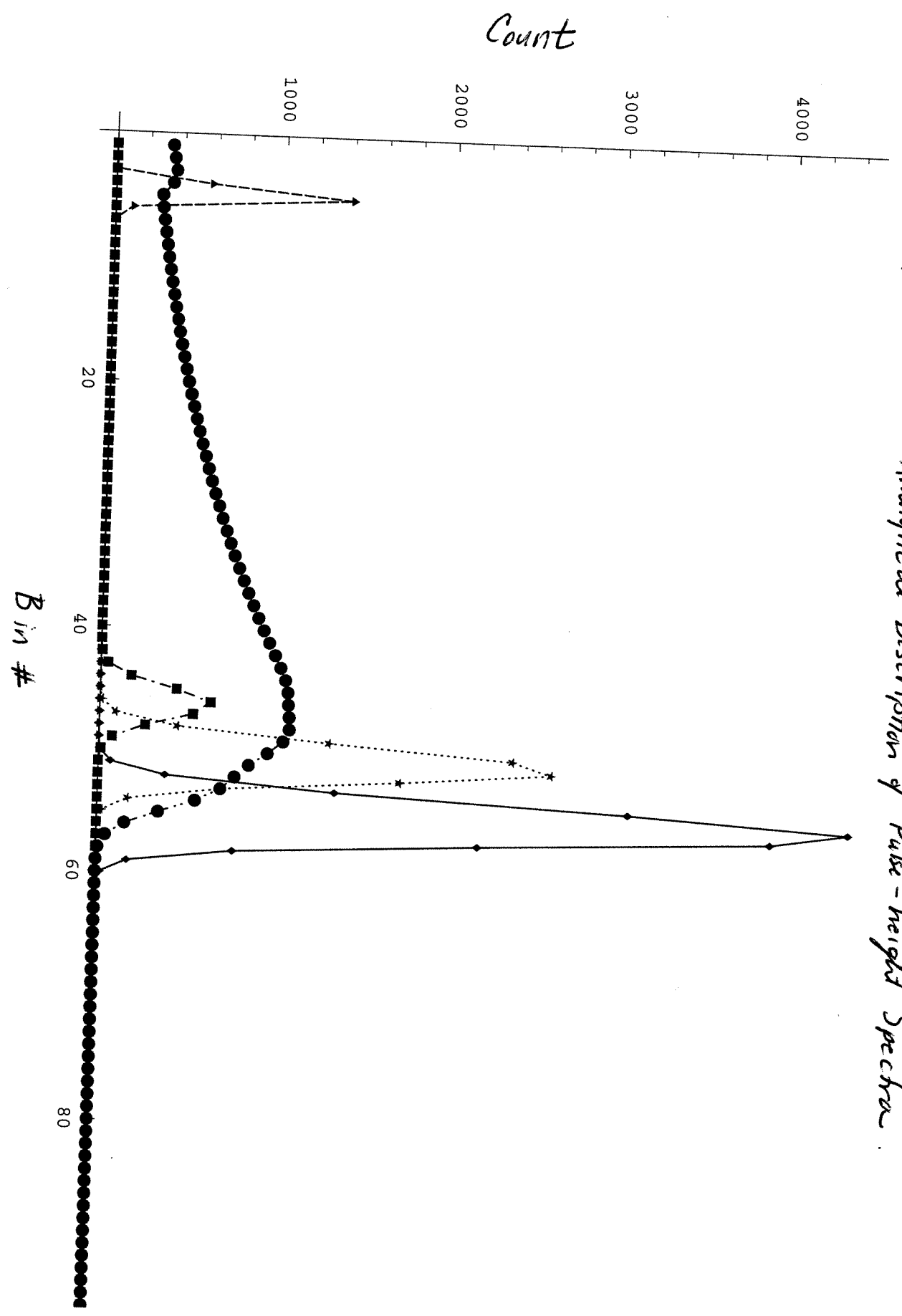


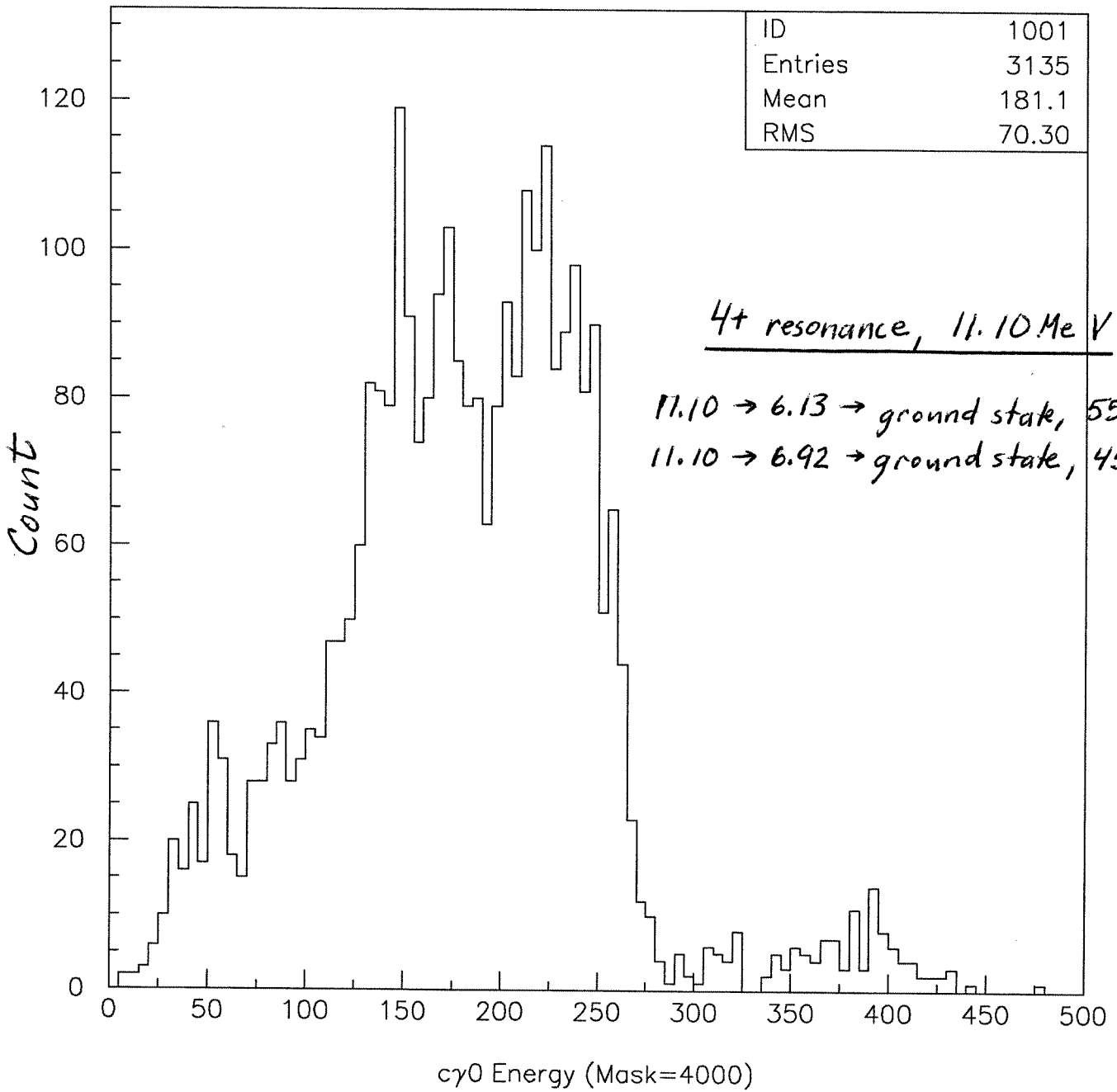
GEANT pulse-height spectra for 6.92 MeV gammas



Components of Analytical Description of Pulse-height Spectra.



Pulse height spectra, $E_{beam} = 1.324 \text{ MeV/u}$, Run # 8407



$X =$ actual # of events

$Y =$ # events detected

Cascade # 1

- $E_1, E_2, E_1 < E_2$
- branching ratio B
- # actual events = BX
- probability of detecting $E_1 = P(E_1)$
- probability of detecting $E_2 = P(E_2)$
- probability of histogramming $E_1 = P(E_1)[1 - P(E_2)]$
- probability of histogramming $E_2 = P(E_2)$

of E_1 's histogrammed

$$BX P(E_1)[1 - P(E_2)]$$

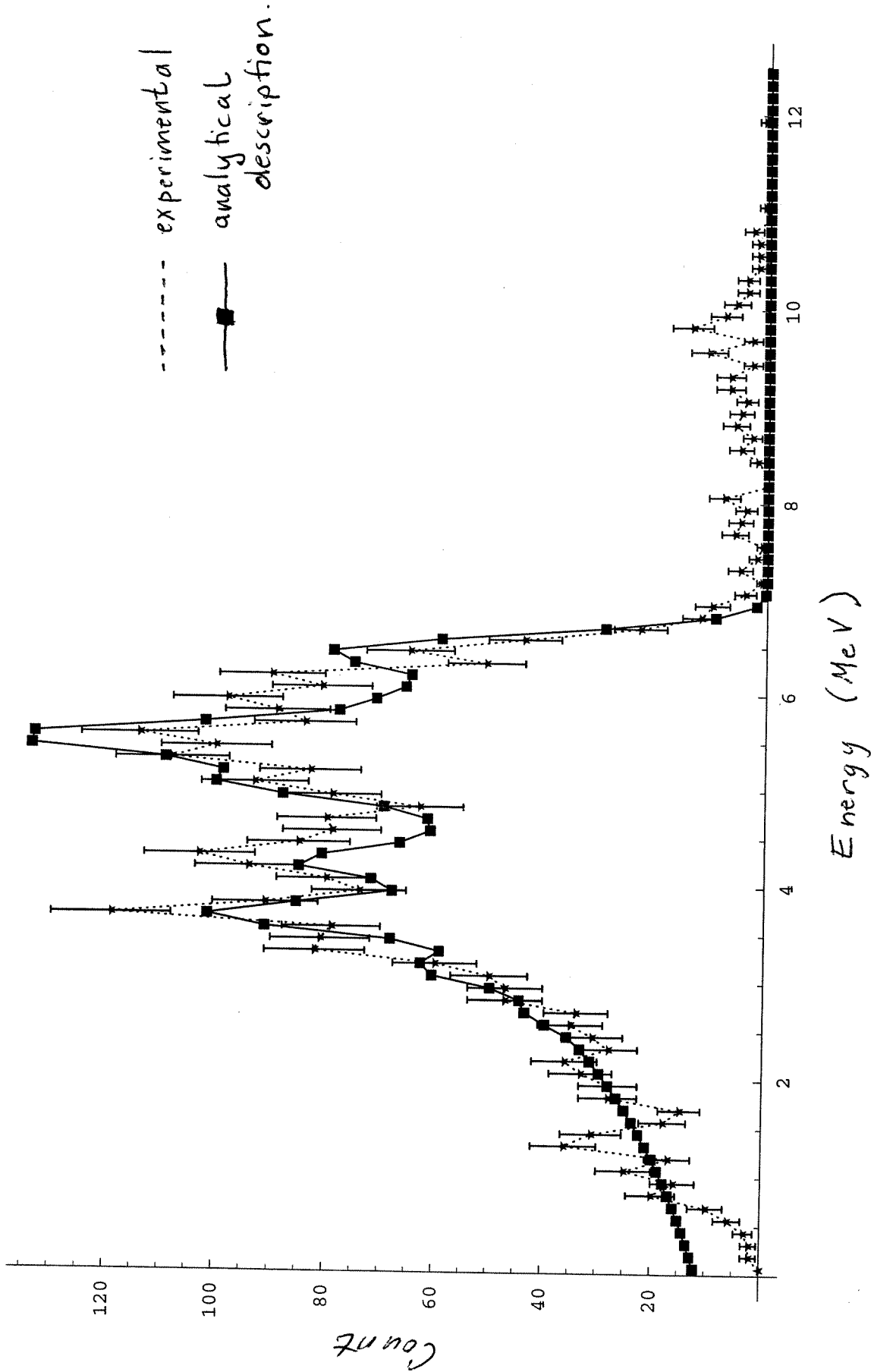
of E_2 's histogrammed

$$BX P(E_2)$$

Cascade # 2

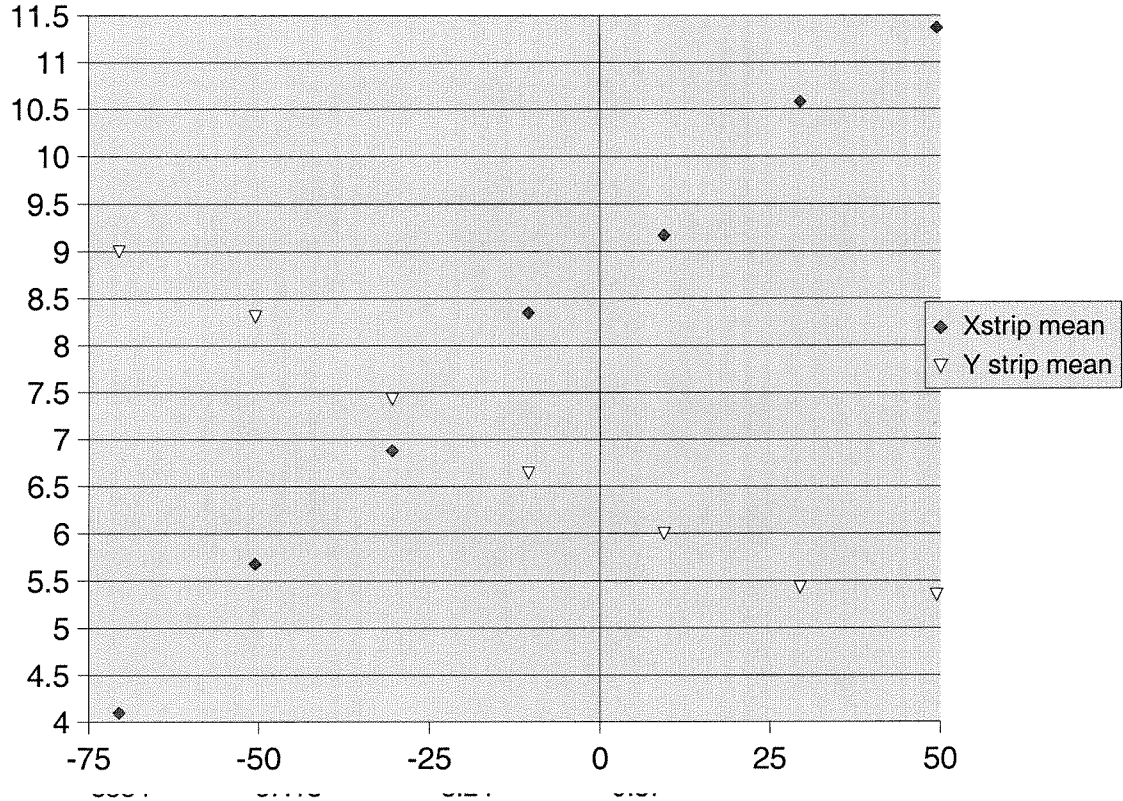
•
•
•

$$\sum \text{all histogrammed} = Y$$

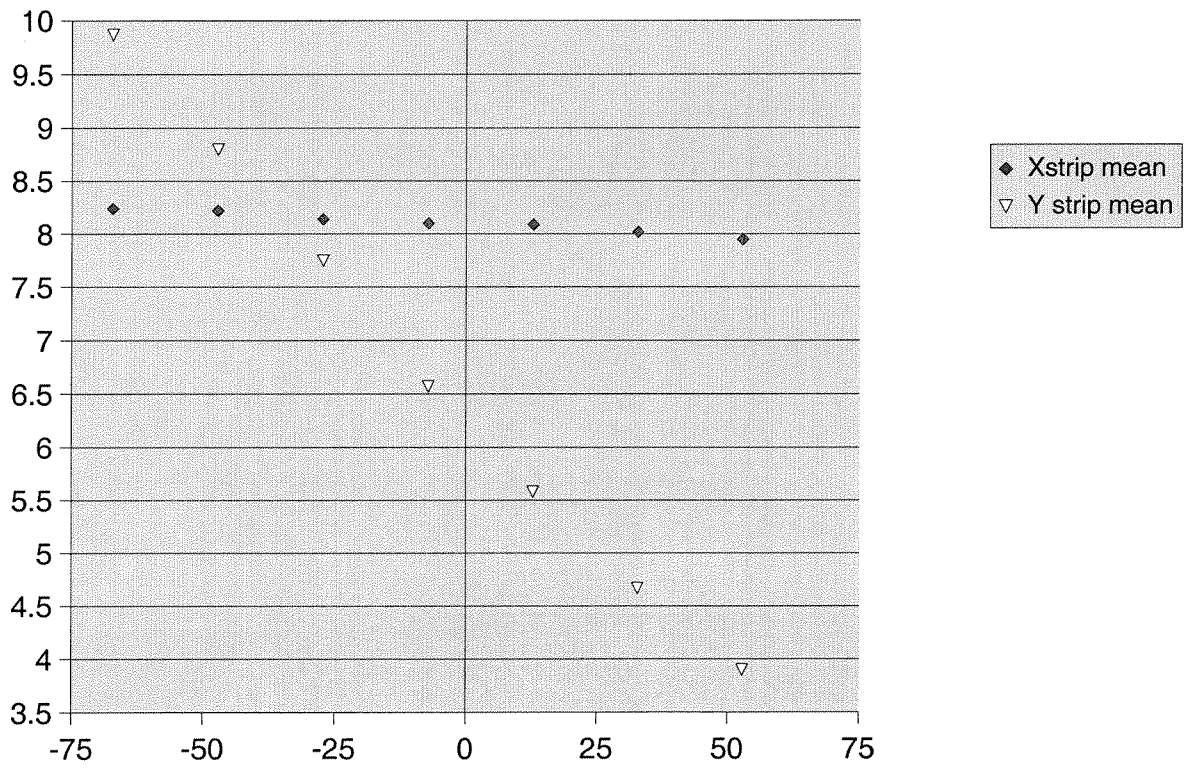


Analytical vs experimental pulse height spectra, $E_{\text{beam}} = 1.324 \text{ MeV/u}$, Run # 8407

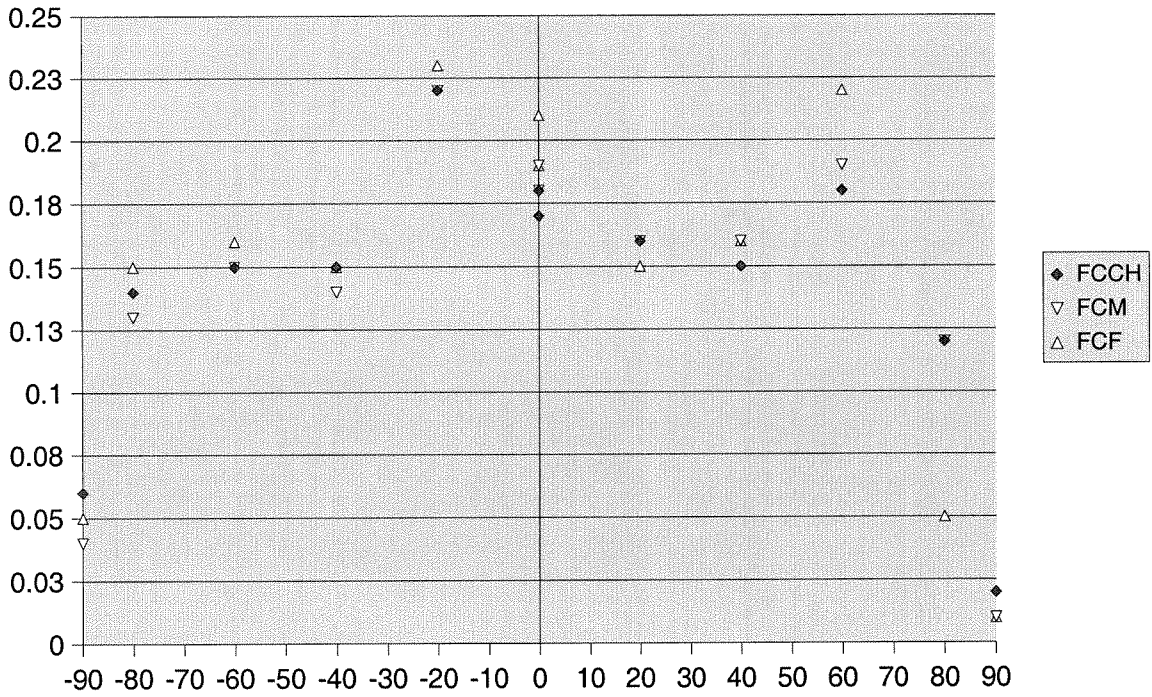
DSSD vs. SM0X



DSSD vs SM0Y



Main Title



SMOX scan with new tunes

