

Mugast DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST_LISE23

Operator : test

App. Date : 09/02/24

Source : 3 alpha peaks ^{239}Pu , ^{241}Am , ^{244}Cm

Dead Layer : Al $0.3\mu\text{m}$ + Si $0\mu\text{m}$

Comment : Mugast

Calibration Method : ZeroExtrapolation

Telescope Treated : 4

Strip Treated : 1 to 128

DSSD Side : X

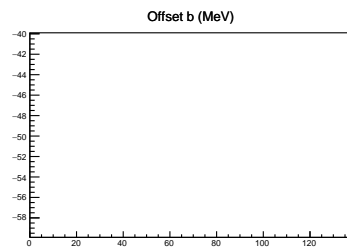
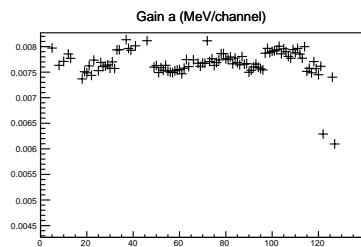
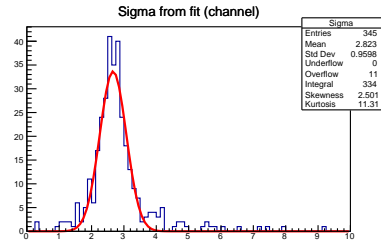
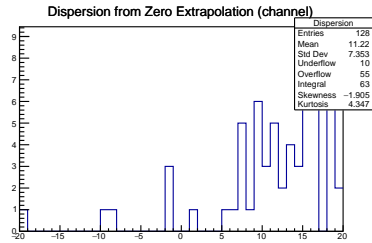
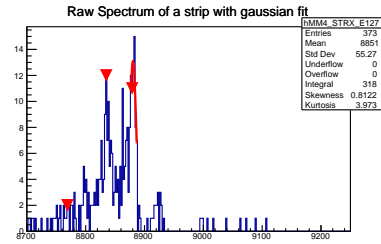
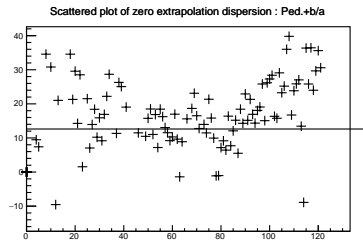
Source Description :

Isotope	Original Energy (MeV)	Branching Ratio
^{239}Pu	5.15659	70.77
^{239}Pu	5.14438	17.11
^{239}Pu	5.1055	11.94
^{241}Am	5.48556	84.8
^{241}Am	5.4428	13.1
^{241}Am	5.388	1.66
^{244}Cm	5.80477	76.4
^{244}Cm	5.76264	23.6

2 Telescope 4

Bad Strip :

Strip Number	Problem
1	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
2	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
3	zero extrapolation too high :312.575channels ;
6	zero extrapolation too high :666.2channels ;
7	zero extrapolation too high :-142.721channels ;
8	zero extrapolation too high :34.5742channels ;
9	zero extrapolation too high :-204.386channels ;
10	zero extrapolation too high :30.8008channels ;
11	zero extrapolation too high :16971.2channels ;
14	zero extrapolation too high :-146.14channels ;
15	zero extrapolation too high :-197.821channels ;
16	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
17	zero extrapolation too high :-141.83channels ;
18	zero extrapolation too high :34.5744channels ;
24	zero extrapolation too high :-61.2912channels ;
35	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
36	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
40	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
42	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
43	zero extrapolation too high :-35.9512channels ;
44	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
45	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
48	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
65	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
67	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
107	zero extrapolation too high :36.0075channels ;
108	zero extrapolation too high :39.8008channels ;
115	zero extrapolation too high :36.3622channels ;
117	zero extrapolation too high :36.4443channels ;
120	zero extrapolation too high :35.6164channels ;
121	zero extrapolation too high :30.5995channels ;
122	zero extrapolation too high :225.941channels ;
123	zero extrapolation too high :-205.319channels ;
124	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
125	zero extrapolation too high :-188.253channels ;
126	zero extrapolation too high :44.1528channels ;
127	zero extrapolation too high :256.829channels ;
128	zero extrapolation too high :650.162channels ;



Sigma fit centroid : 2.66428
Sigma fit sigma : 0.409998