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 0.3μm + Si 0μm
Comment : Mugast

Calibration Method : ZeroExtrapolation
Telescope Treated : 1
Strip Treated : 1 to 128
DSSD Side : X

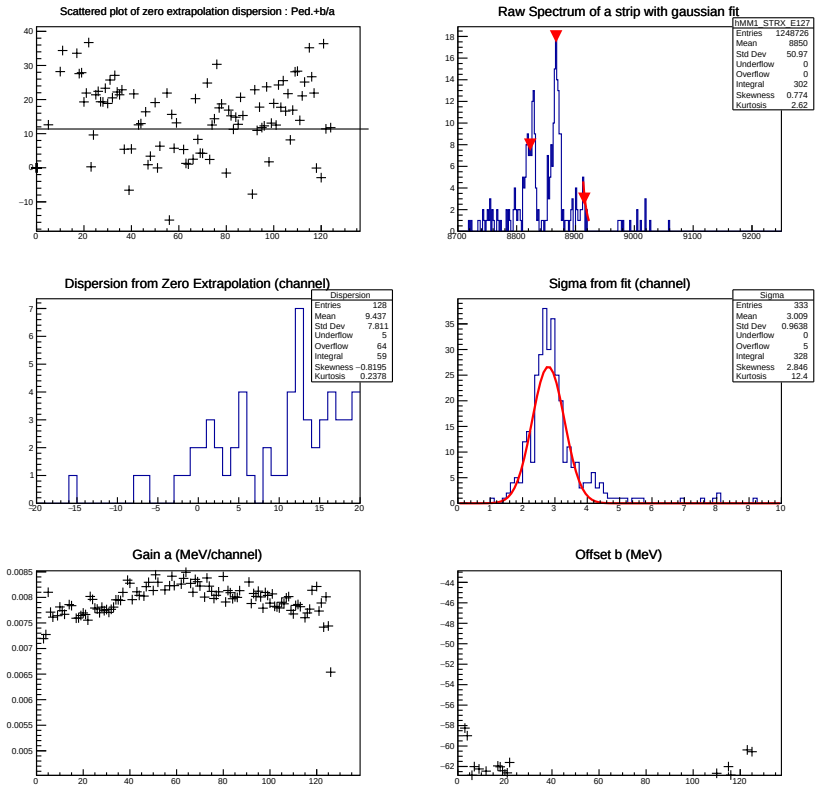
Source Description :

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 1

Bad Strip :

Strip Number	Problem
1	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
2	zero extrapolation too high :-14511.8channels ;
3	zero extrapolation too high :94.7677channels ;
4	zero extrapolation too high :82.0728channels ;
6	zero extrapolation too high :41.2142channels ;
7	zero extrapolation too high :46.8579channels ;
8	zero extrapolation too high :-209.065channels ;
9	zero extrapolation too high :47.675channels ;
11	zero extrapolation too high :34.384channels ;
12	zero extrapolation too high :48.63channels ;
13	zero extrapolation too high :-131.3channels ;
14	zero extrapolation too high :49.726channels ;
15	zero extrapolation too high :49.468channels ;
16	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
17	zero extrapolation too high :33.5847channels ;
22	zero extrapolation too high :36.7217channels ;
38	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
42	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
45	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
49	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
53	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
54	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
60	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
61	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
65	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
71	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
76	zero extrapolation too high :30.3359channels ;
79	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
88	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
89	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
90	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
114	zero extrapolation too high :-100.189channels ;
115	zero extrapolation too high :35.1915channels ;
119	zero extrapolation too high :-172.302channels ;
121	zero extrapolation too high :36.3914channels ;
123	zero extrapolation too high :52.4242channels ;
125	zero extrapolation too high :53.8312channels ;
126	zero extrapolation too high :205.622channels ;
127	zero extrapolation too high :534.037channels ;
128	0 peak(s) found ; zero extrapolation too high :8203.4channels ;



Sigma fit centroid : 2.79672

Sigma fit sigma : 0.499951