

MUST2 DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST@LISE23
Operator : Valerian and Hugo
App. Date : 16/02/23
Source : 3 alpha peaks ^{239}Pu , ^{241}Am , ^{244}Cm
Dead Layer : Al $0.3\mu\text{m}$ + Si $0\mu\text{m}$
Comment : MUST2

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

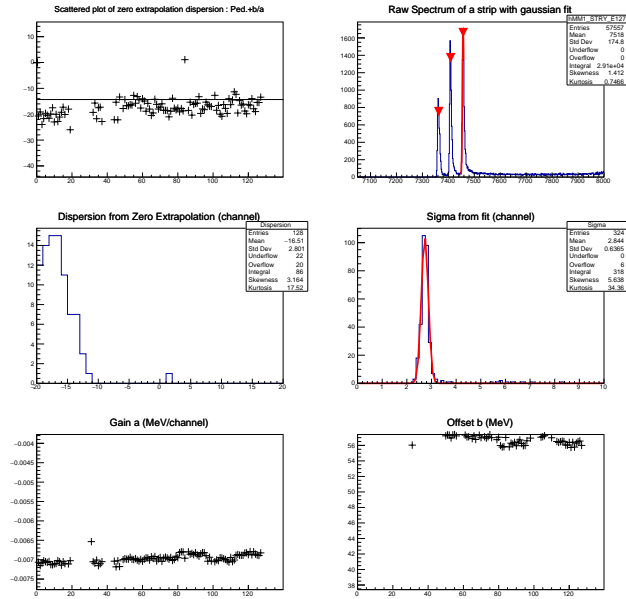
Source Description :

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
17	zero extrapolation too high :-384.512channels;
20	0 peak(s) found ; zero extrapolation too high :8181.16channels;
21	0 peak(s) found ; zero extrapolation too high :8181.16channels;
22	0 peak(s) found ; zero extrapolation too high :8181.16channels;
23	0 peak(s) found ; zero extrapolation too high :8181.16channels;
24	0 peak(s) found ; zero extrapolation too high :8181.16channels;
25	0 peak(s) found ; zero extrapolation too high :8181.16channels;
26	0 peak(s) found ; zero extrapolation too high :8181.16channels;
27	0 peak(s) found ; zero extrapolation too high :8181.16channels;
28	0 peak(s) found ; zero extrapolation too high :8181.16channels;
29	0 peak(s) found ; zero extrapolation too high :8181.16channels;
30	0 peak(s) found ; zero extrapolation too high :8181.16channels;
31	zero extrapolation too high :-383.784channels;
38	1 peak(s) found ; zero extrapolation too high :8181.16channels;
39	0 peak(s) found ; zero extrapolation too high :8181.16channels;
40	0 peak(s) found ; zero extrapolation too high :8181.16channels;
41	2 peak(s) found ; zero extrapolation too high :8181.16channels;
42	0 peak(s) found ; zero extrapolation too high :8181.16channels;
43	zero extrapolation too high :-754.708channels;
48	0 peak(s) found ; zero extrapolation too high :8181.16channels;
85	0 peak(s) found ; zero extrapolation too high :8181.16channels;
100	0 peak(s) found ; zero extrapolation too high :8181.16channels;
128	0 peak(s) found ; zero extrapolation too high :8181.16channels;



Sigma fit centroid : 2.72913
 Sigma fit sigma : 0.141622