

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

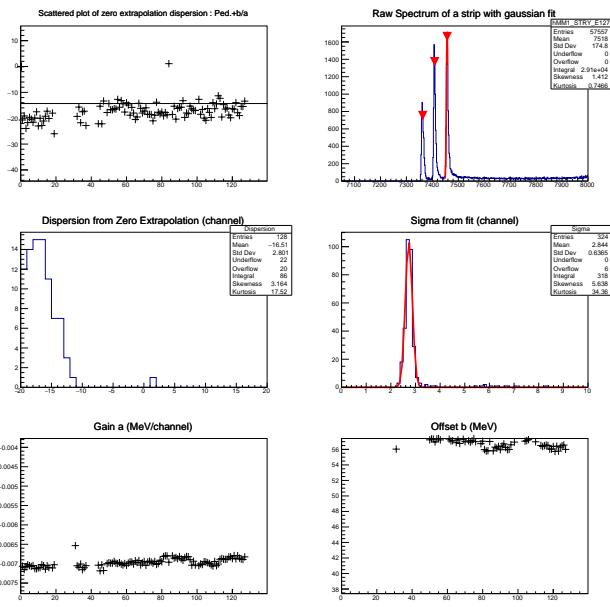
Source Description :

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