

MUST2 DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST_{LISE23LaurieandHugo}
Operator App. Date : 24/05/23
Source : 3 alpha peaks ²³⁹Pu, ²⁴¹Am, ²⁴⁴Cm
Dead Layer : Al 0.3 μ m + Si 0 μ m
Comment : MUST2

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

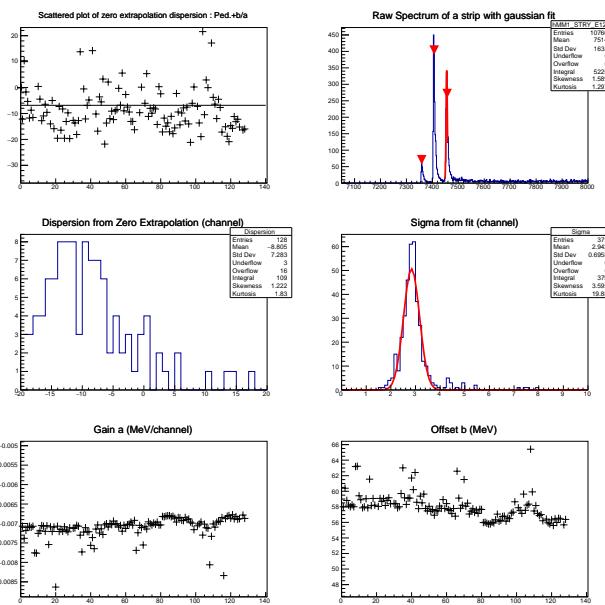
Source Description :

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
8	zero extrapolation too high :45.9981channels ;
9	zero extrapolation too high :48.795channels ;
16	zero extrapolation too high :30.3513channels ;
20	zero extrapolation too high :110.162channels ;
29	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
35	zero extrapolation too high :42.6453channels ;
40	zero extrapolation too high :32.9979channels ;
42	zero extrapolation too high :31.0117channels ;
66	zero extrapolation too high :56.0012channels ;
70	zero extrapolation too high :48.2039channels ;
100	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
108	zero extrapolation too high :79.6196channels ;
116	zero extrapolation too high :118.238channels ;
126	0 peak(s) found ; zero extrapolation too high :8181.16channels ;



Sigma fit centroid : 2.84118
Sigma fit sigma : 0.32511