

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 : X

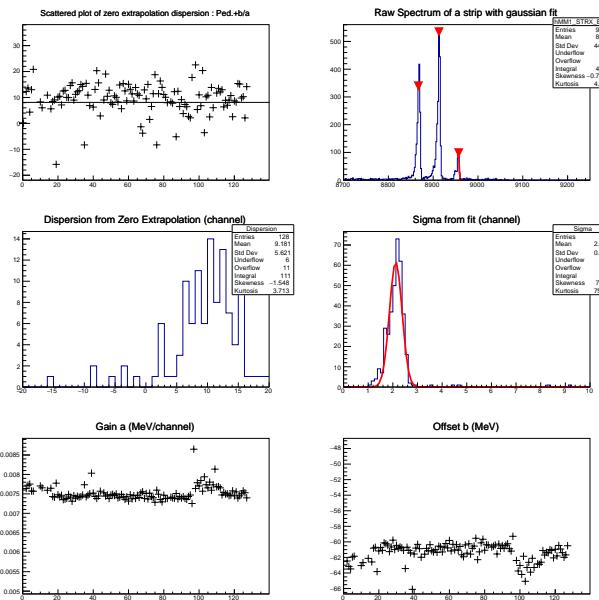
Source Description :

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	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
7	zero extrapolation too high :-147.001channels ;
8	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
9	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
12	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
13	zero extrapolation too high :-205.949channels ;
15	zero extrapolation too high :-168.369channels ;
39	zero extrapolation too high :-37.6513channels ;
45	2 peak(s) found ; zero extrapolation too high :8203.4channels ;
83	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
97	zero extrapolation too high :-60.8845channels ;
128	0 peak(s) found ; zero extrapolation too high :8203.4channels ;



Sigma fit centroid : 2.11876
Sigma fit sigma : 0.256929