MUST2 DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST$_L ISE23 Laurie and Hugo$
Operator App. Date : 24/05/23
Source : 3 alpha peaks ^{239}Pu, ^{241}Am, ^{244}Cm
Dead Layer : Al 0.3μm + Si 0μm
Comment : MUST2

Calibration Method : ZeroExtrapolation
Telescope Treated : 4
Strip Treated : 1 to 128
DSSD Side : Y

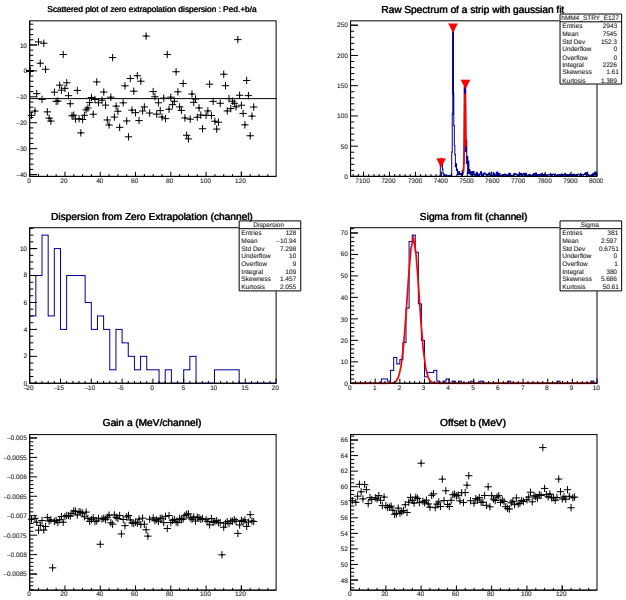
Source Description :

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 4

Bad Strip :

Strip Number	Problem
2	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
13	zero extrapolation too high :98.2012channels ;
40	zero extrapolation too high :43.7892channels ;
69	zero extrapolation too high :171.735channels ;
99	zero extrapolation too high :191.544channels ;
109	zero extrapolation too high :68.2827channels ;
128	zero extrapolation too high :186.648channels ;



Sigma fit centroid : 2.5425
Sigma fit sigma : 0.238579