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 0.3μm + Si 0μm
Comment : MUST2

Calibration Method : ZeroExtrapolation
Telescope Treated : 2
Strip Treated : 1 to 128
DSSD Side : X

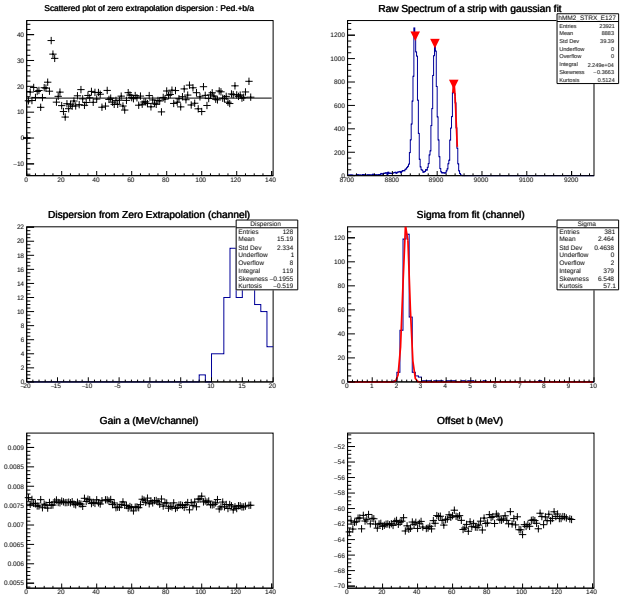
Source Description :

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 2

Bad Strip :

Strip Number	Problem
14	zero extrapolation too high :37.7077channels ;
15	zero extrapolation too high :32.4541channels ;
16	zero extrapolation too high :30.8178channels ;
44	0 peak(s) found ; zero extrapolation too high :8203.4channels ;
126	zero extrapolation too high :-102.432channels ;



Sigma fit centroid : 2.38211
Sigma fit sigma : 0.132576