

MUST2 DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST *LISE23LaurieandHugo*

Operator App. Date : 24/05/23

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 : 2

Strip Treated : 1 to 128

DSSD Side : X

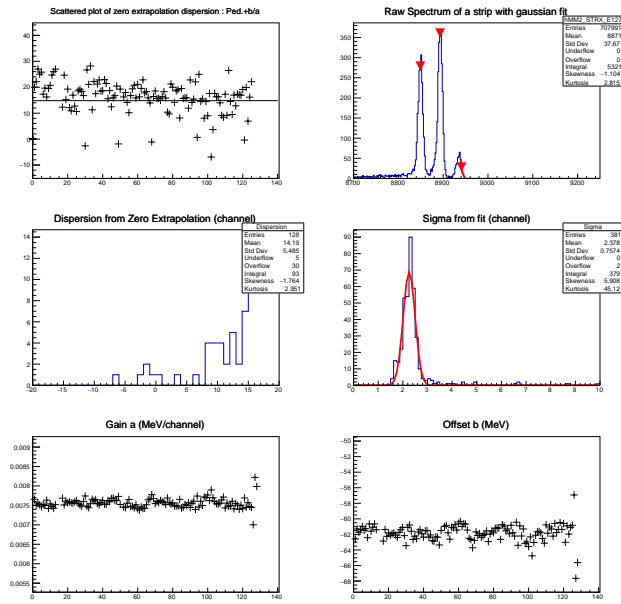
Source Description :

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 :-179.455channels;
15	2 peak(s) found; zero extrapolation too high :8203.4channels;
16	zero extrapolation too high :-116.939channels;
51	zero extrapolation too high :-169.936channels;
126	zero extrapolation too high :62.7902channels;
127	zero extrapolation too high :-37.3004channels;



Sigma fit centroid : 2.25535
Sigma fit sigma : 0.241864