

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 : 3
Strip Treated : 1 to 128
DSSD Side : Y

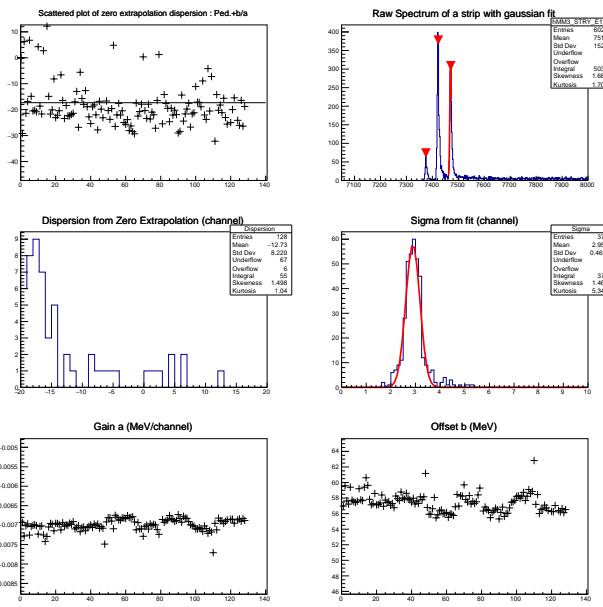
Source Description :

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 3

Bad Strip :

Strip Number	Problem
80	zero extrapolation too high :165.058channels ;
110	zero extrapolation too high :42.7041channels ;
111	zero extrapolation too high :-32.1837channels ;
119	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
123	0 peak(s) found ; zero extrapolation too high :8181.16channels ;



Sigma fit centroid : 2.89267
Sigma fit sigma : 0.288098