

MUST2 DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST_{LISE23V}*ValerianandHugo*

Operator App. Date : 16/02/23

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 : 2

Strip Treated : 1 to 128

DSSD Side : X

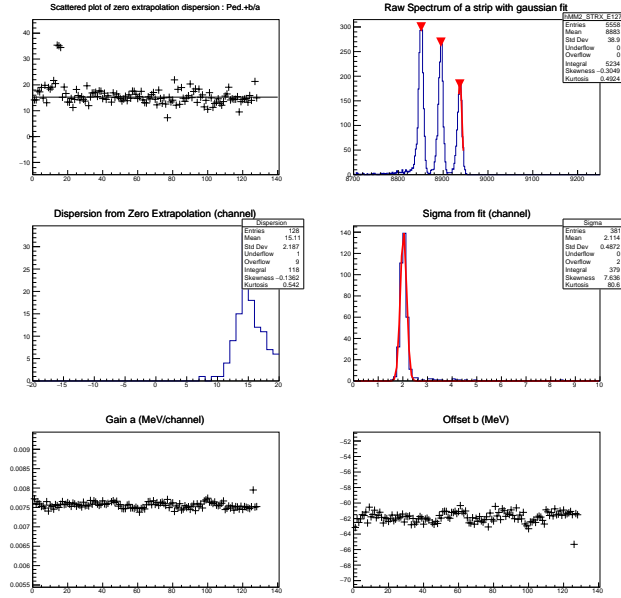
Source Description :

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 :35.3625channels;
15	zero extrapolation too high :35.1303channels;
16	zero extrapolation too high :34.4519channels;
44	0 peak(s) found ; zero extrapolation too high :8203.4channels;



Sigma fit centroid : 2.02682
Sigma fit sigma : 0.12637