

Mugast DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST_LISE23

Operator : test

App. Date : 09/02/24

Source : 3 alpha peaks ^{239}Pu , ^{241}Am , ^{244}Cm

Dead Layer : Al $0.3\mu\text{m}$ + Si $0\mu\text{m}$

Comment : Mugast

Calibration Method : ZeroExtrapolation

Telescope Treated : 5

Strip Treated : 1 to 128

DSSD Side : Y

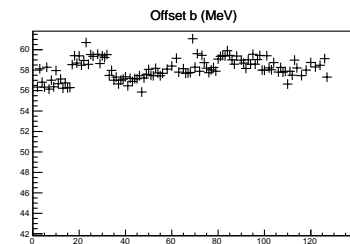
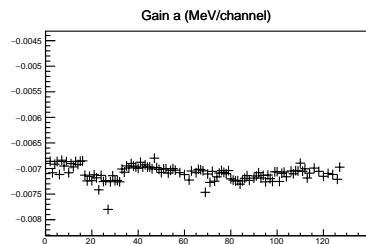
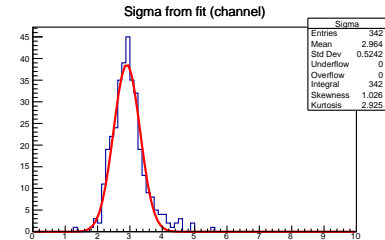
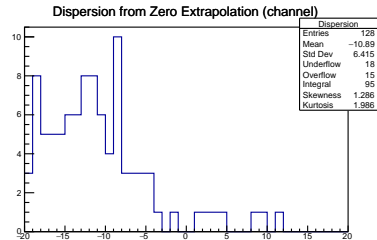
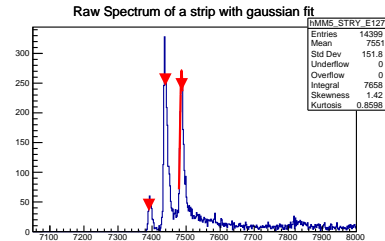
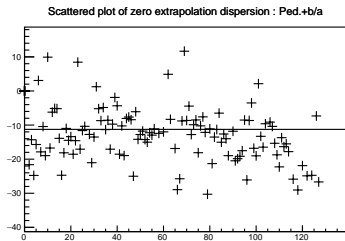
Source Description :

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 5

Bad Strip :

Strip Number	Problem
1	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
27	zero extrapolation too high :38.4886channels ;
57	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
59	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
61	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
64	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
79	zero extrapolation too high :-30.2826channels ;
89	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
105	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
115	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
117	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
119	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
121	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
123	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
125	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
128	0 peak(s) found ; zero extrapolation too high :8181.16channels ;



Sigma fit centroid : 2.904

Sigma fit sigma : 0.408334