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 0.3μm + Si 0μm
Comment : Mugast

Calibration Method : ZeroExtrapolation
Telescope Treated : 3
Strip Treated : 1 to 128
DSSD Side : Y

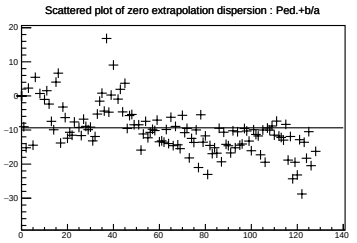
Source Description :

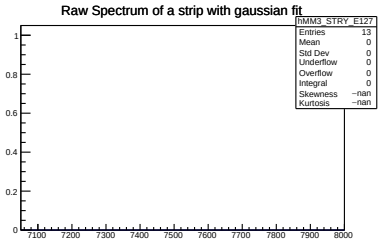
Isotope	Original Energy (MeV)	Branching Ratio
^{239}Pu	5.15659	70.77
^{239}Pu	5.14438	17.11
^{239}Pu	5.1055	11.94
^{241}Am	5.48556	84.8
^{241}Am	5.4428	13.1
^{241}Am	5.388	1.66
^{244}Cm	5.80477	76.4
^{244}Cm	5.76264	23.6

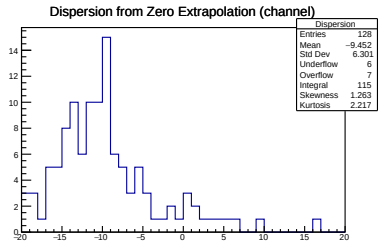
2 Telescope 3

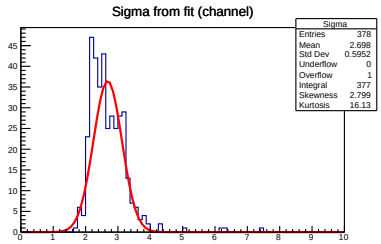
Bad Strip :

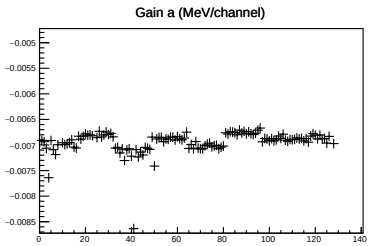
Strip Number	Problem
4	zero extrapolation too high :56.6837channels ;
9	zero extrapolation too high :190.86channels ;
24	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
41	zero extrapolation too high :125.626channels ;
50	zero extrapolation too high :42.3212channels ;
127	0 peak(s) found ; zero extrapolation too high :8181.16channels ;

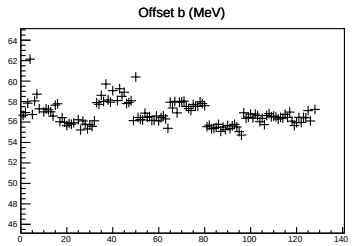












Sigma fit centroid : 2.68355
Sigma fit sigma : 0.439529