

# Mugast DSSD Energy Calibration Report

## 1 Calibration Summary

**Experiment :** MUGAST<sub>LISE23</sub>LaurieandHugo

**Operator App. Date :** 24/05/23

**Source :** 3 alpha peaks <sup>239</sup>Pu, <sup>241</sup>Am, <sup>244</sup>Cm

**Dead Layer :** Al 0.3 $\mu$ m + Si 0 $\mu$ m

**Comment :** Mugast

**Calibration Method :** ZeroExtrapolation

**Telescope Treated :** 4

**Strip Treated :** 1 to 128

**DSSD Side :** Y

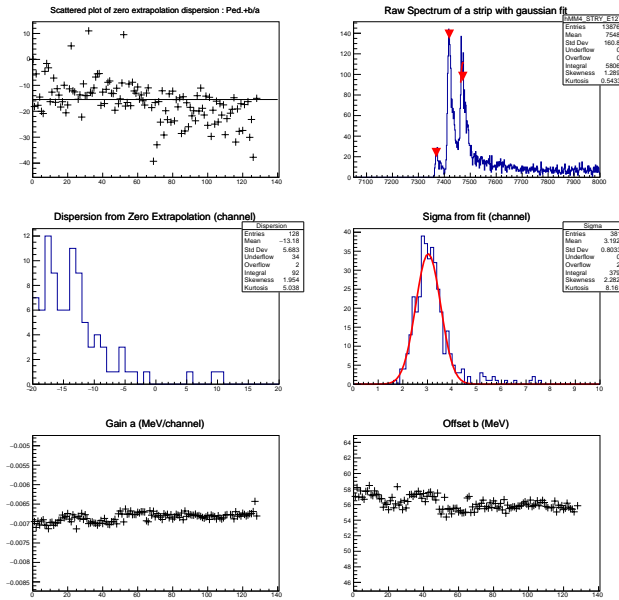
### Source Description :

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

## 2 Telescope 4

Bad Strip :

Strip Number	Problem
67	zero extrapolation too high :-50.2383channels ;
69	zero extrapolation too high :-39.2822channels ;
71	zero extrapolation too high :-32.9257channels ;
112	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
116	zero extrapolation too high :-31.8717channels ;
122	zero extrapolation too high :-64.6072channels ;
124	zero extrapolation too high :-30.0565channels ;
126	zero extrapolation too high :-37.7411channels ;
127	zero extrapolation too high :-72.9872channels ;



Sigma fit centroid : 3.02953  
Sigma fit sigma : 0.506006