

# MUST2 DSSD Energy Calibration Report

## 1 Calibration Summary

**Experiment :** MUGAST<sub>LISE23LaurieandHugo</sub>  
**Operator App. Date :** 28/03/23  
**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 :** MUST2

**Calibration Method :** ZeroExtrapolation  
**Telescope Treated :** 2  
**Strip Treated :** 1 to 128  
**DSSD Side :** X

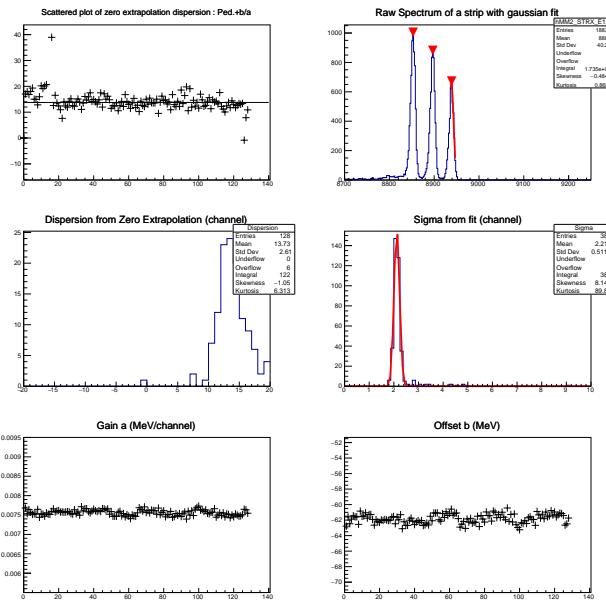
### Source Description :

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 2

Bad Strip :

Strip Number	Problem
14	zero extrapolation too high :45.6716channels ;
15	zero extrapolation too high :40.9418channels ;
16	zero extrapolation too high :38.947channels ;



Sigma fit centroid : 2.1196  
Sigma fit sigma : 0.11347