Csl Photon Detector Calibration using Kmu2

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How to Calibration



Extracted Kmu2



Charge vs. pulse height

Waveform is similar. The wave has linearity. But, a deviation is in 600-800.

Why?

e⁺ from μ^+ make second pulse. μ tends to stop in Kmu2 region.

Fitting by the line

The function defined f(h). In the projection of the line, selected over the threshold, Kmu2 is only extracted.

Result



Future

Really?

The deviate is almost multiple wave. Second pulse properties is confirmed. Dose different of the time mean τ_{μ} ? Is second height, max. 52 MeV?

Future Work

All crystal energy calibration Confirmation the dt and h2 from all crystal. Cosmic ray calibration from e+ emitted stopped mu+

