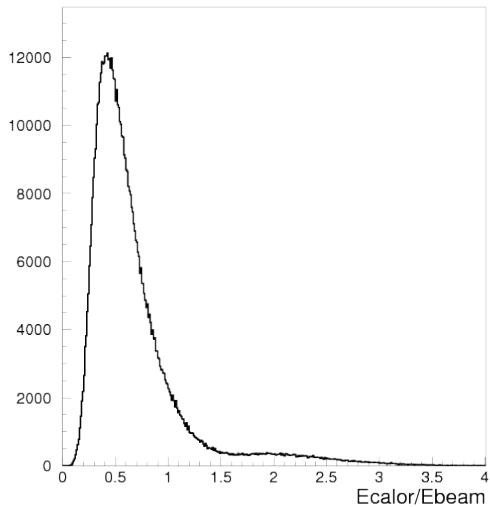


# Snake Calibration and Trigger Efficiency

Maxime

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# Ilya's Preliminary Comparison



# Trigger Efficiency

- ▶ T1 = LeadGlass Sum Trigger, T2 = Total Sum Trigger, T5 = Tagger Trigger

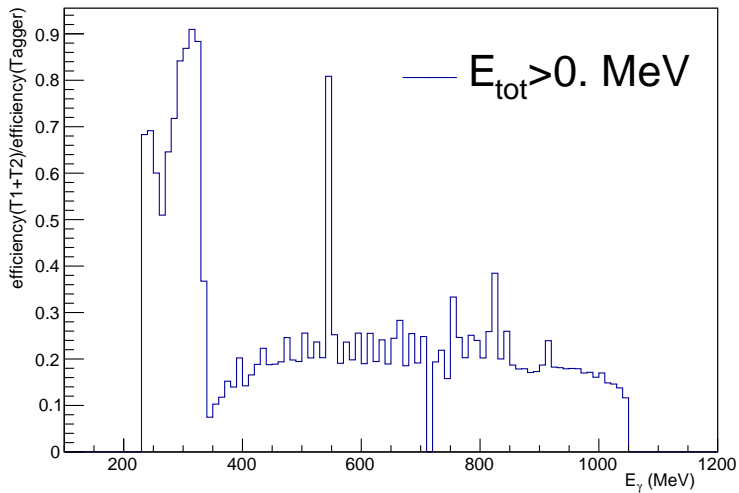
$$\frac{\text{efficiency}(T1 + T2)}{\text{efficiency}_{\text{Tagger}}}(E_\gamma, E_{\text{tot}} > x \text{ MeV}) = \frac{N_{T1}(E, x) + N_{T2}(E, x)}{N_{T1}(E, x) + N_{T2}(E, x) + N_{T5}(E, x)}$$

- ▶ cut on time to clean distributions (try to have  $\text{efficiency}_{\text{Tagger}}$  close to 1):

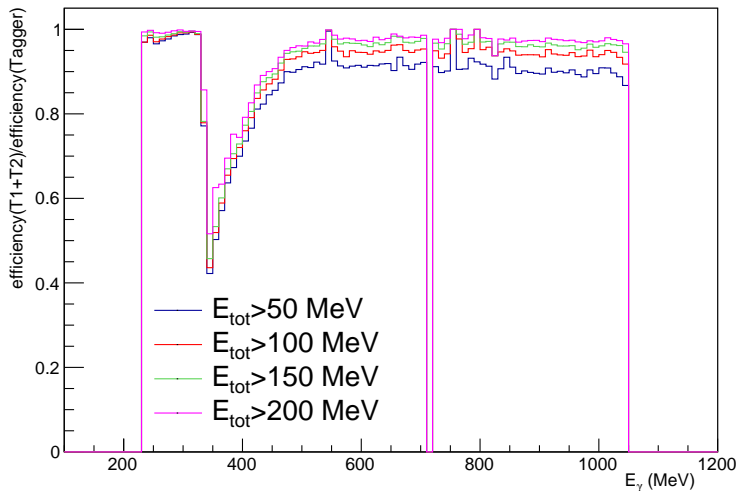
$$| \text{time}_{\text{tagger hit}} - \langle \text{time}_{\text{tagger hit}} \rangle_{Ti} | < 25 \text{ ns}$$

- ▶ several cuts on  $E_{\text{tot}}$ : 0 MeV, 50 (MeV) ... 200 (MeV)

# Without $E_{tot}$ cut



## Different $E_{tot}$ cuts



# Different $E_{tot}$ cuts: Zoom

