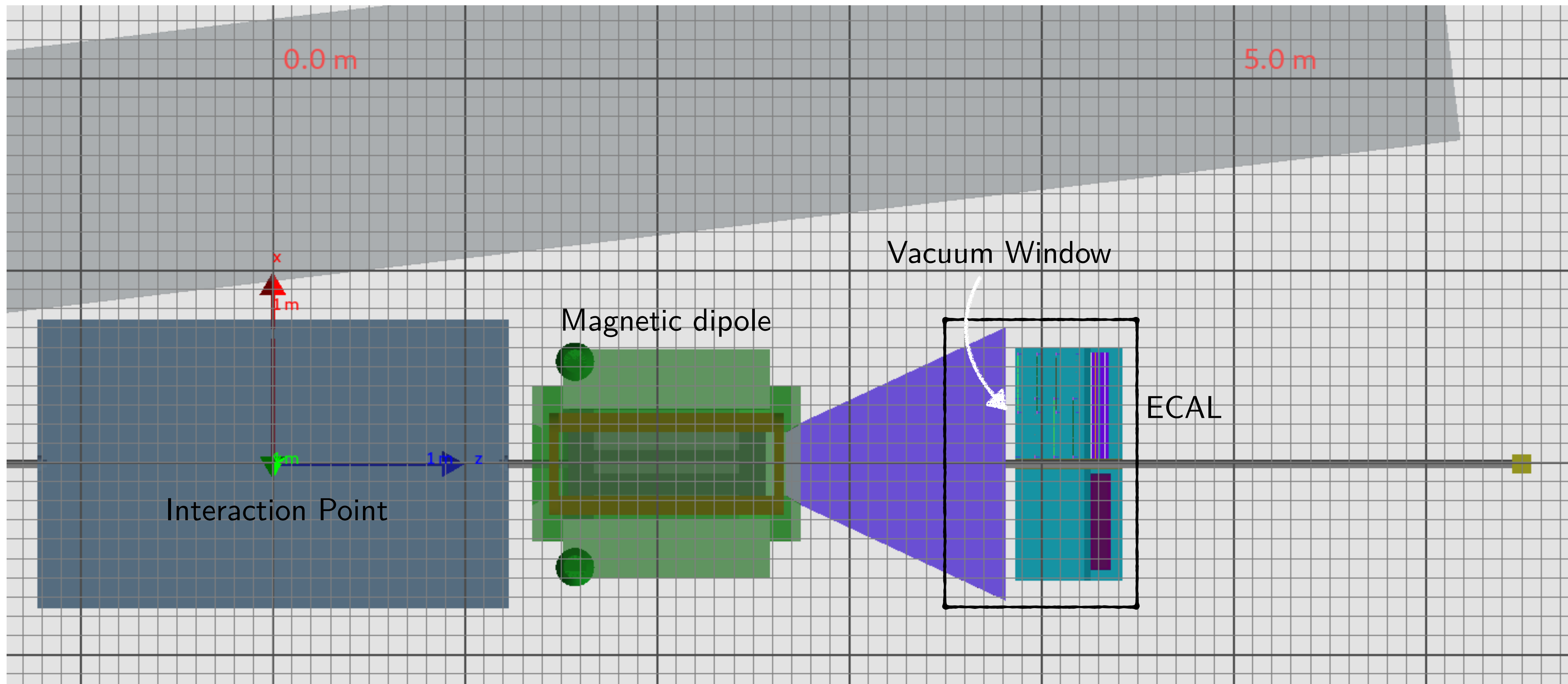


ECal background (*Al* window)

shan.huang@desy.de

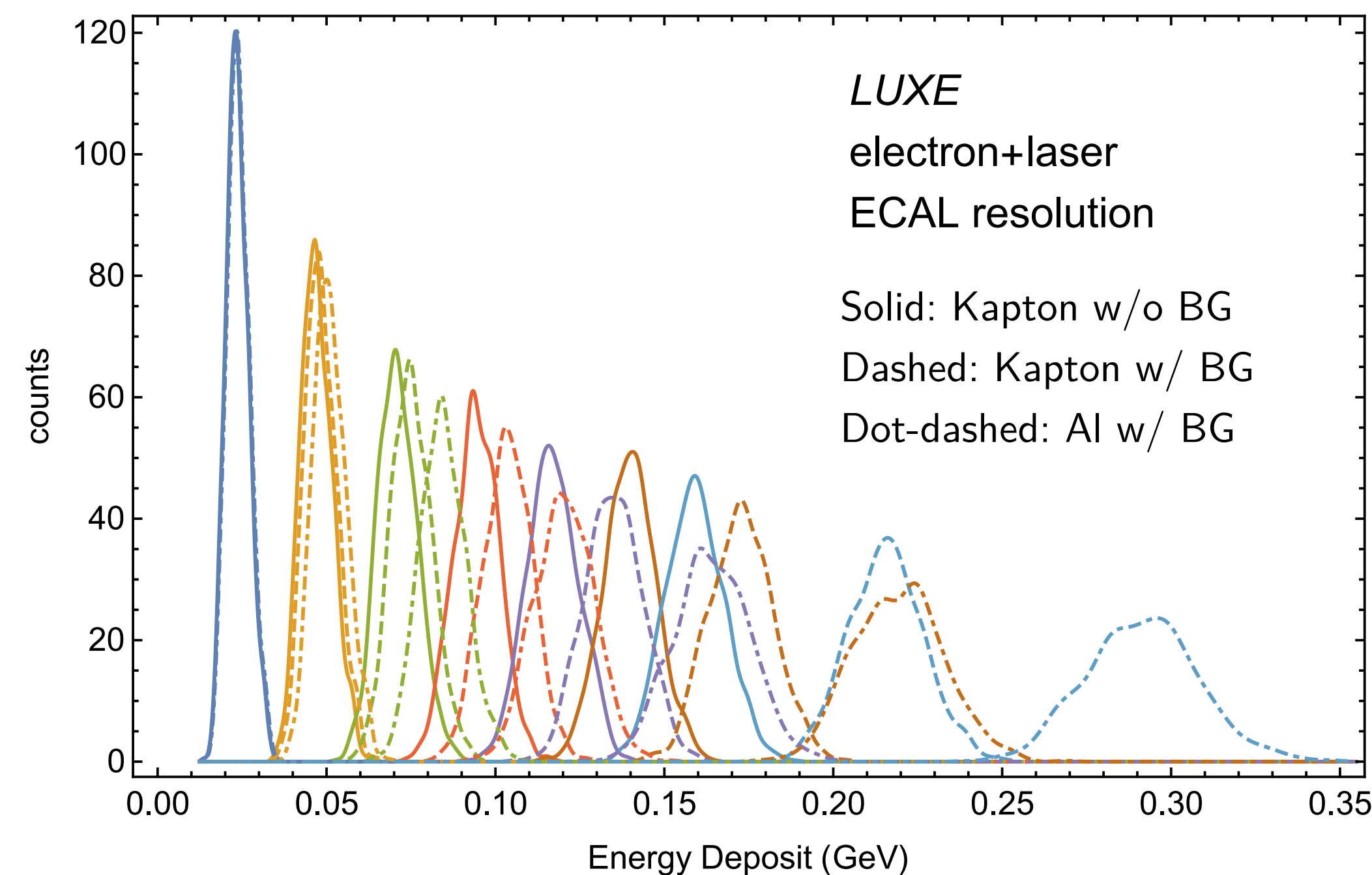
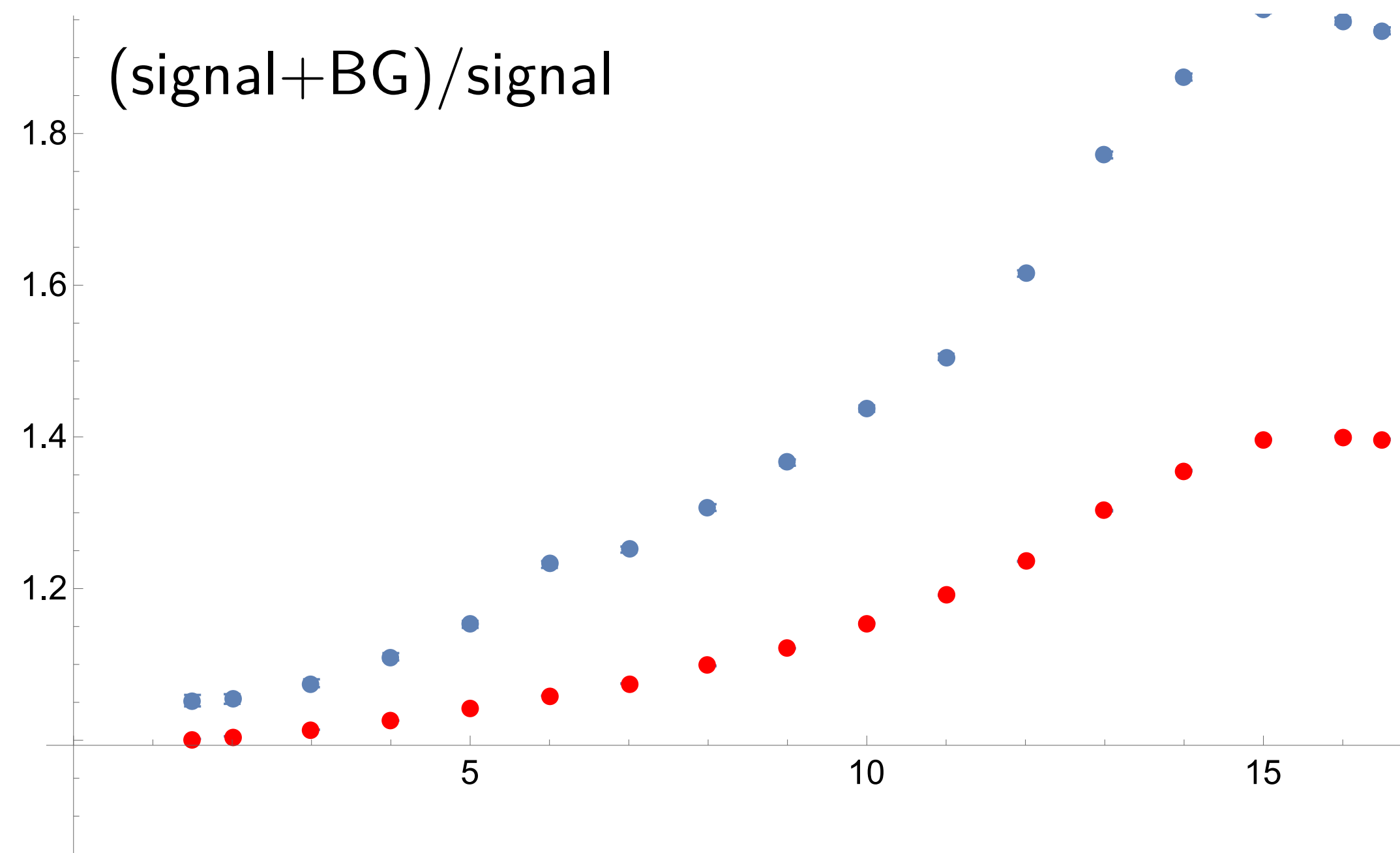
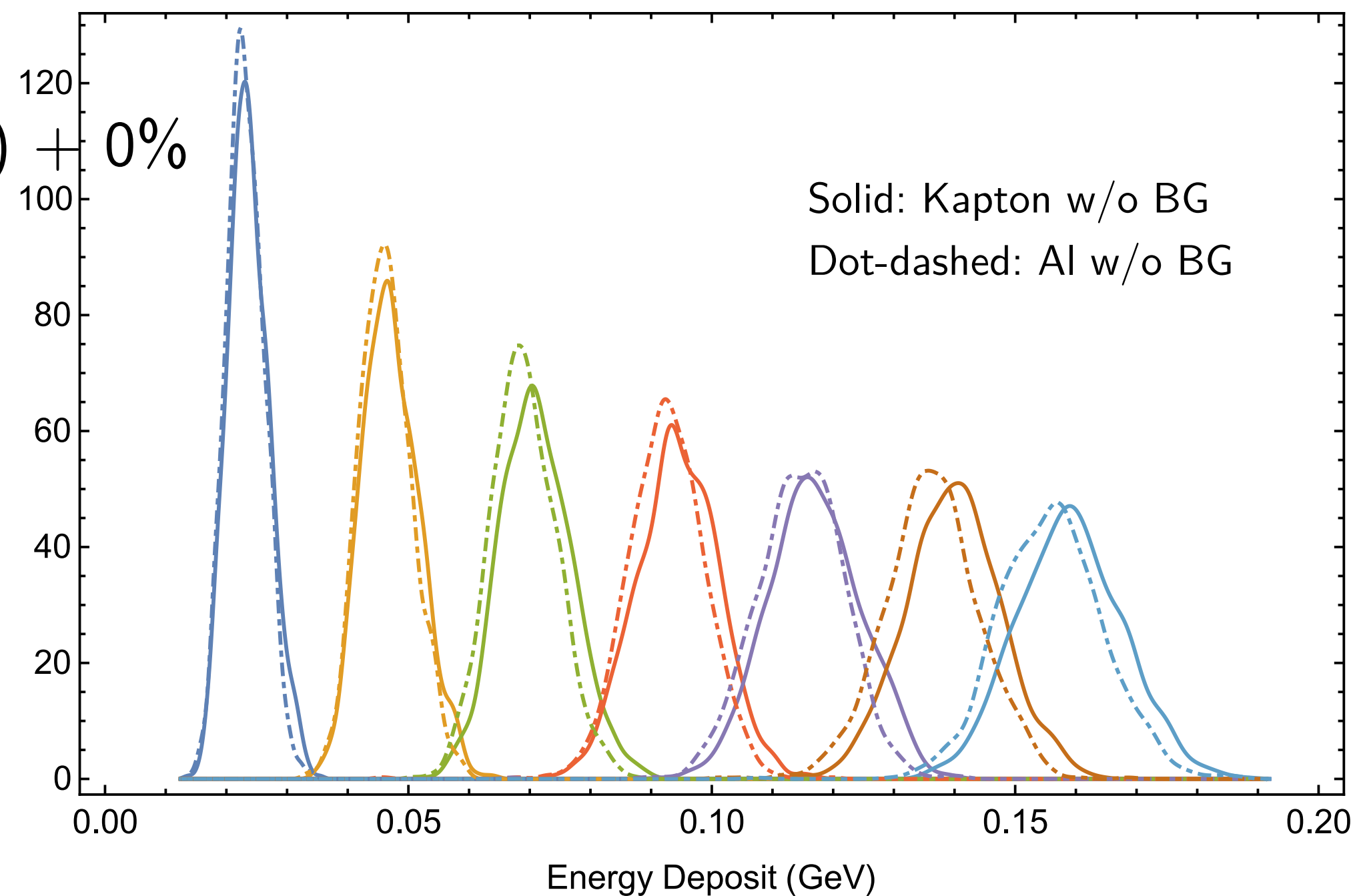
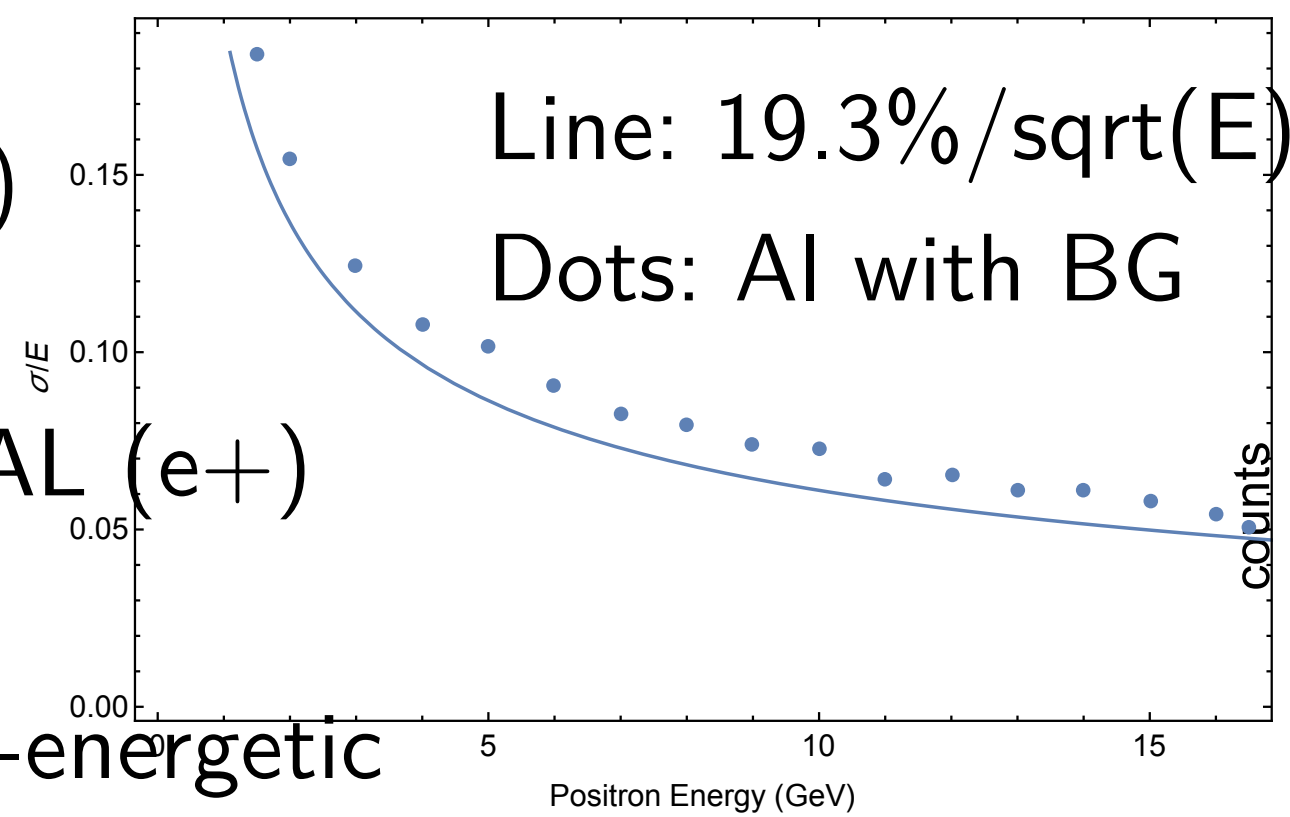
27 May 2021



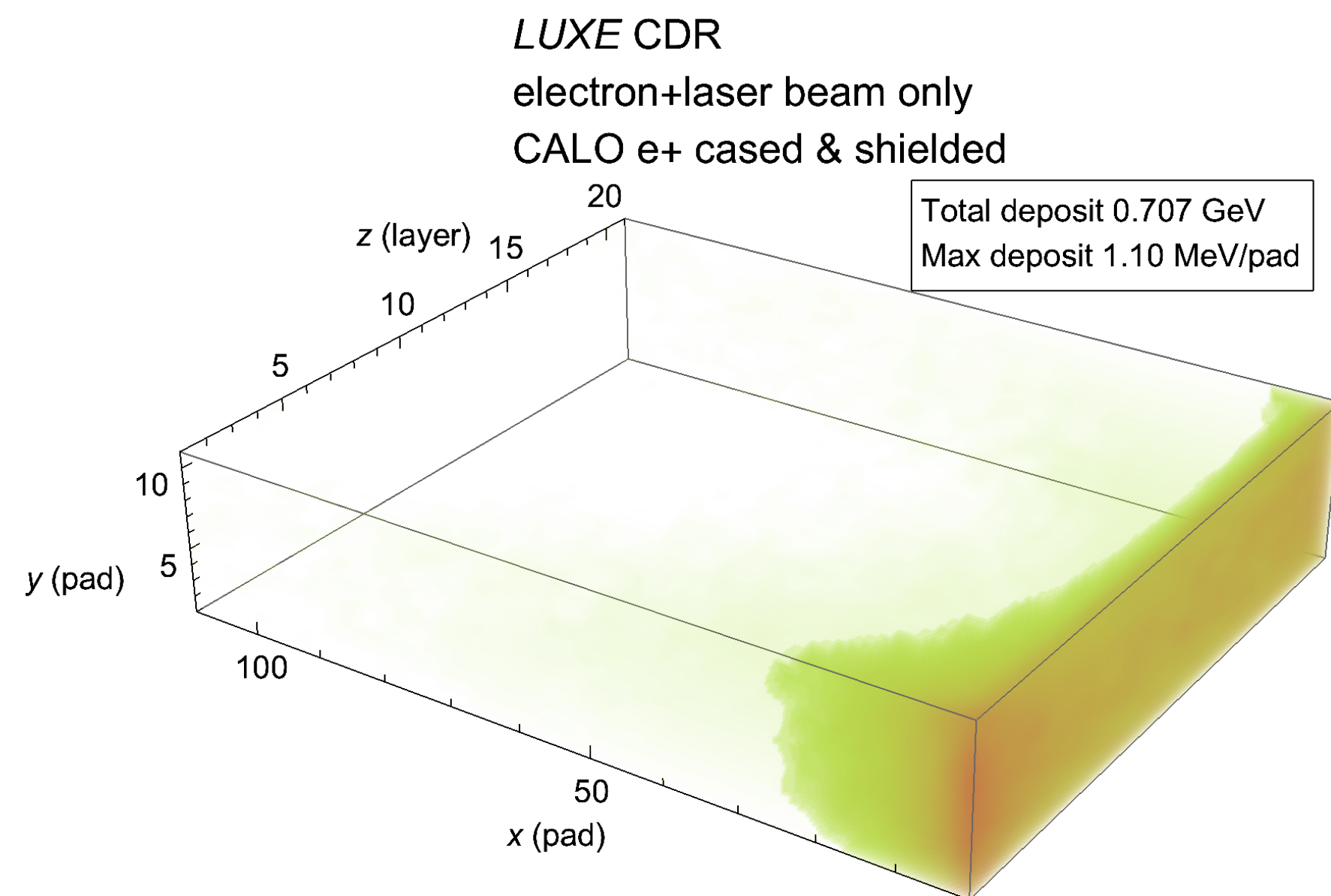
CDR Fig. 6.19a/6.20 (electron-laser)

Energy deposit resolution of the ECAL (e^+)
w/ or w/o BG particles

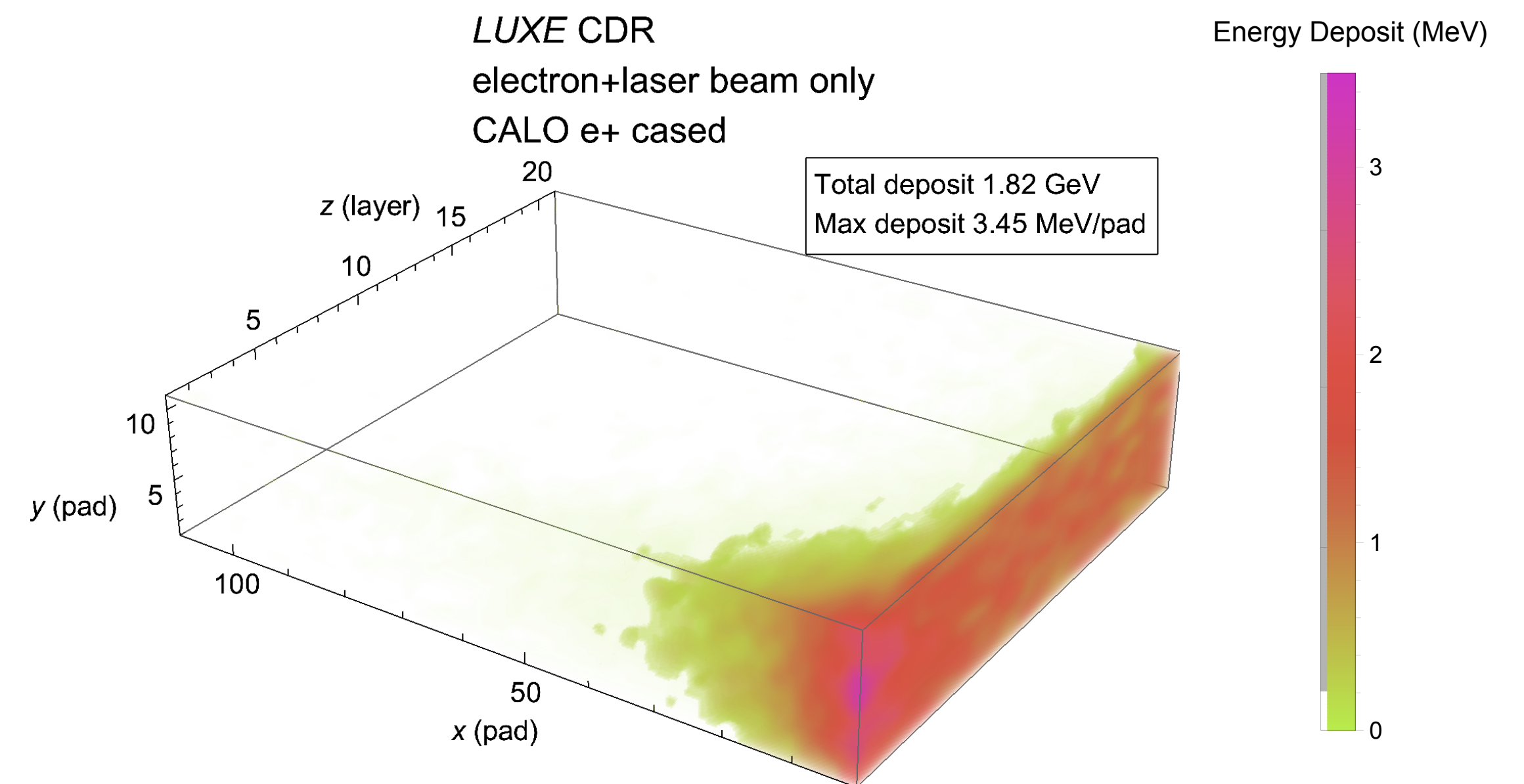
- Results obtained from 1000 mono-energetic positrons shooting from the IP
- BG are added only on the pad with signal



Energy Deposit in ECAL

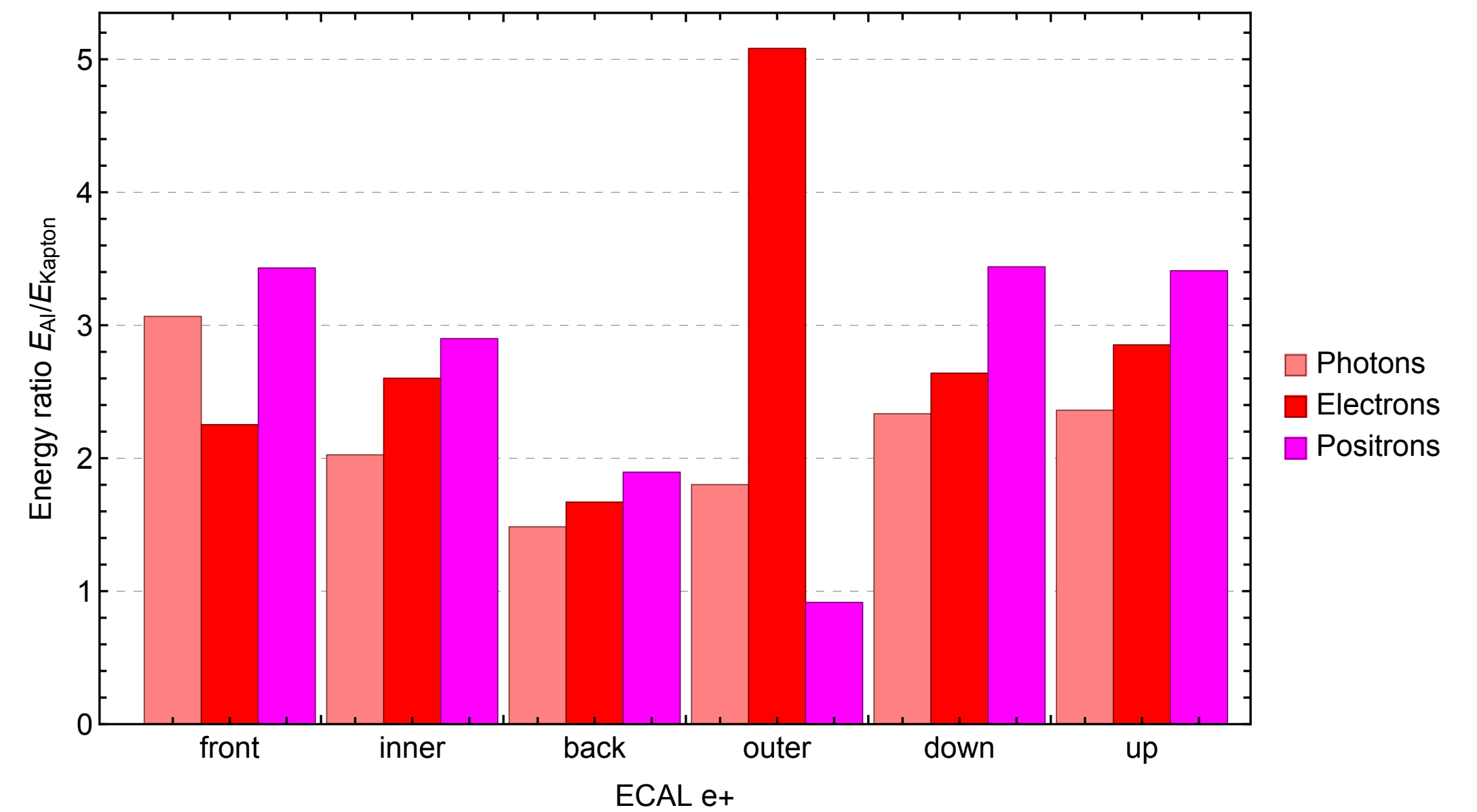
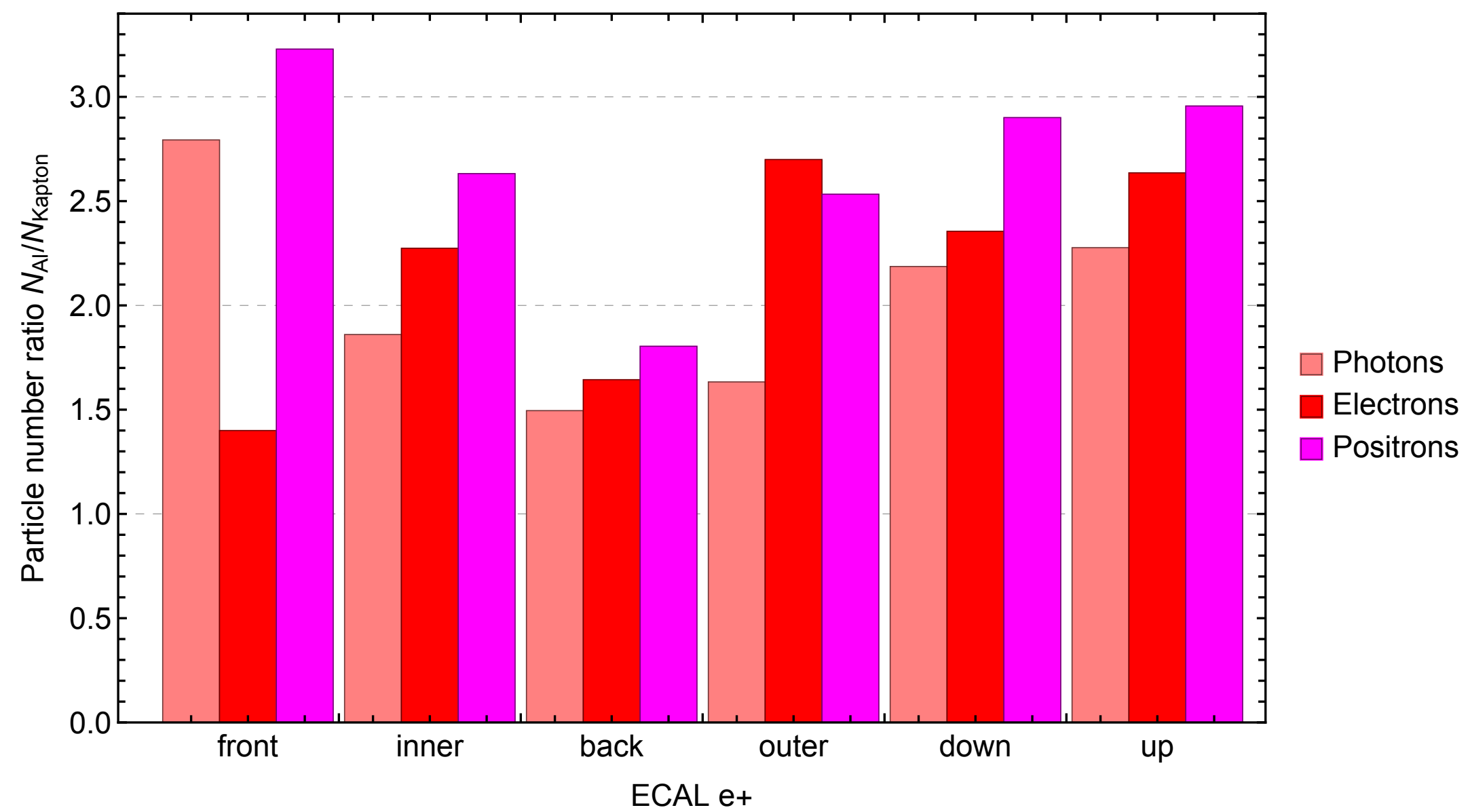
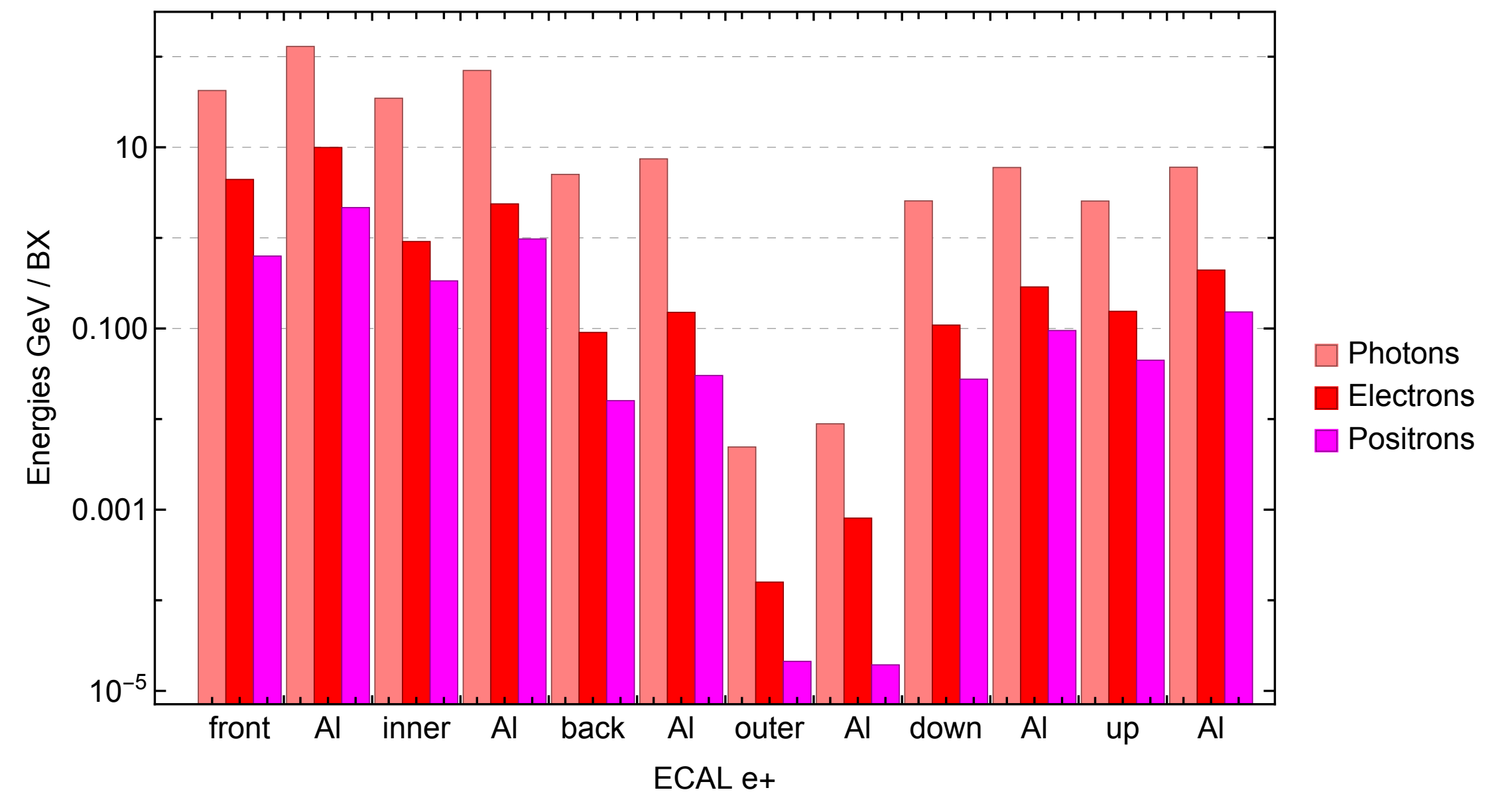
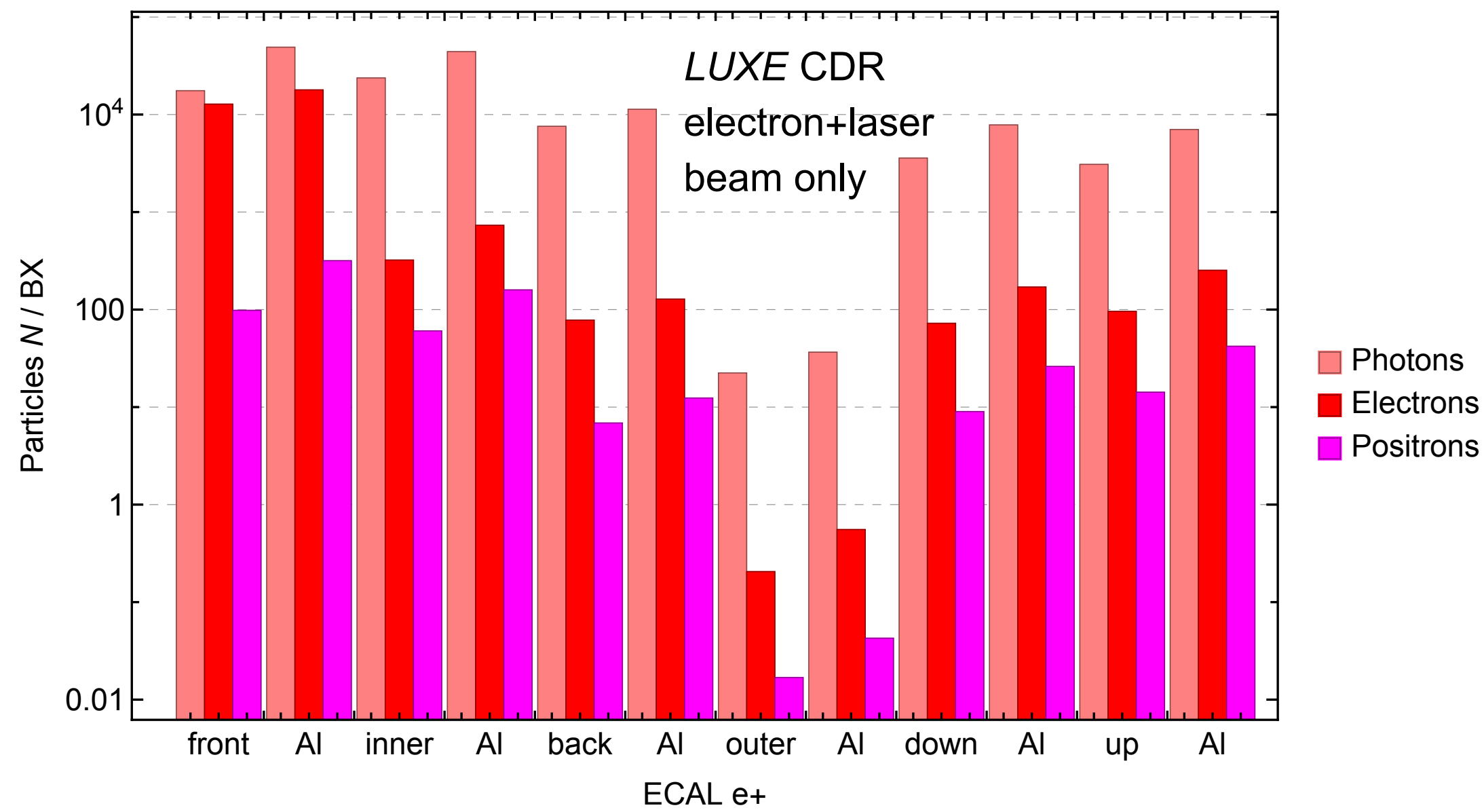


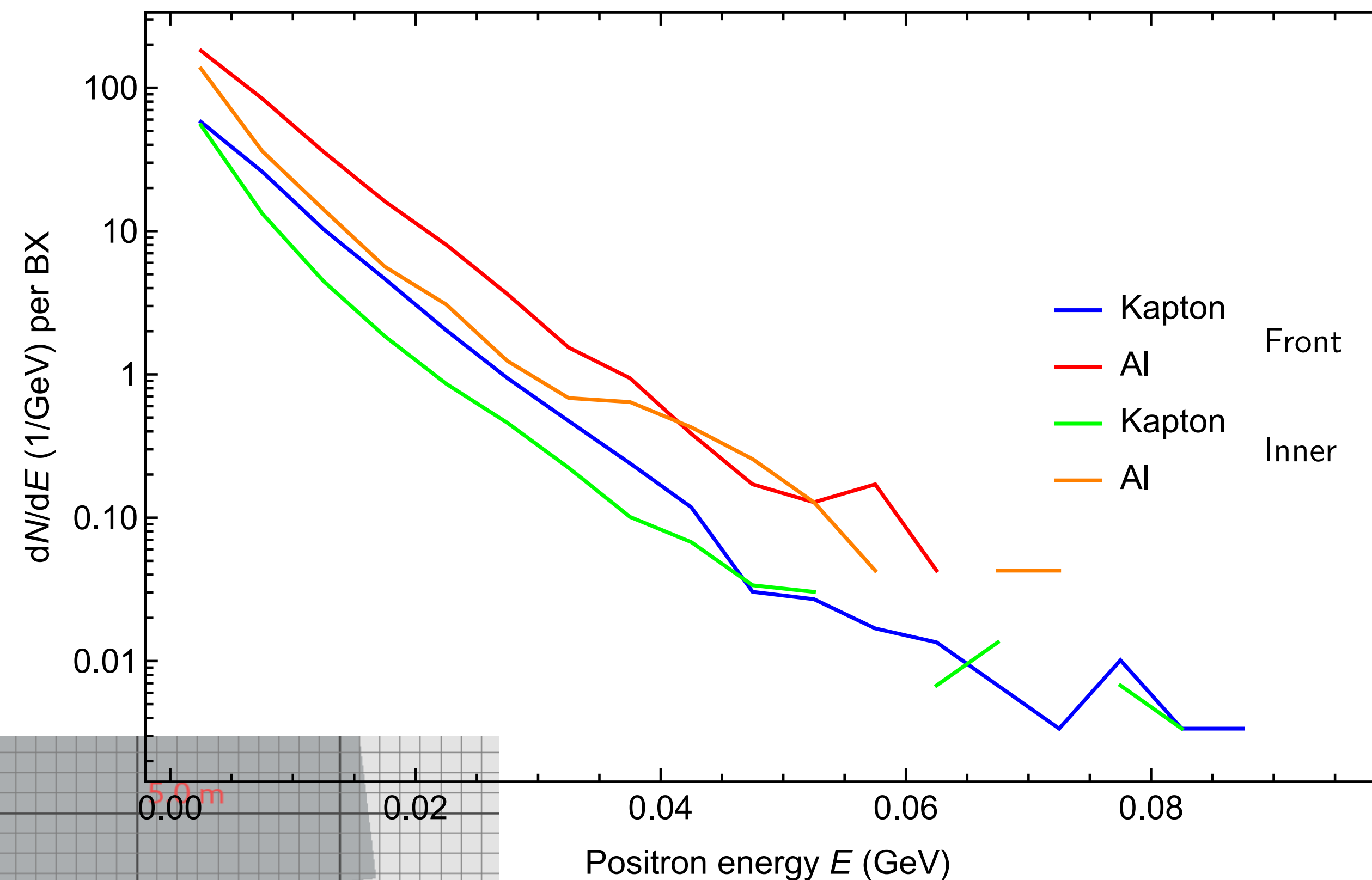
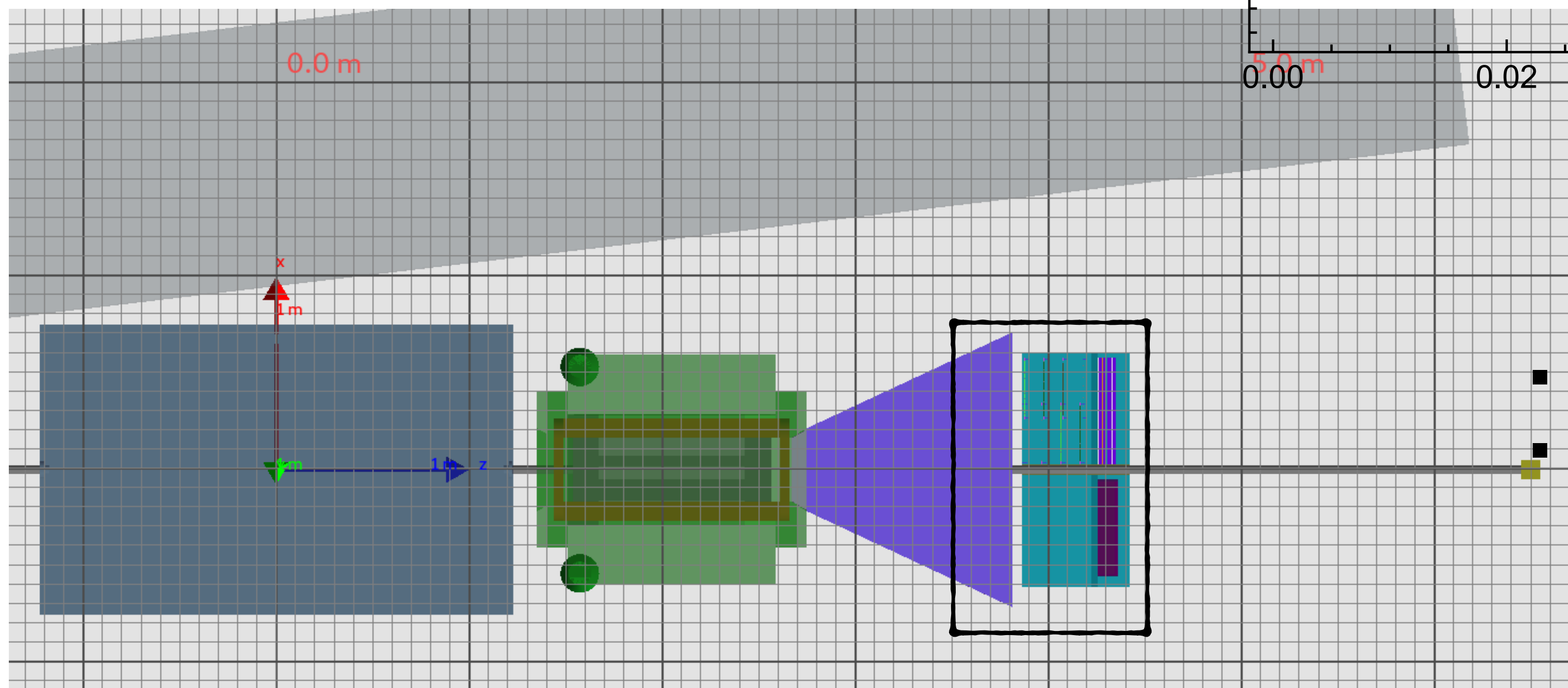
Kapton



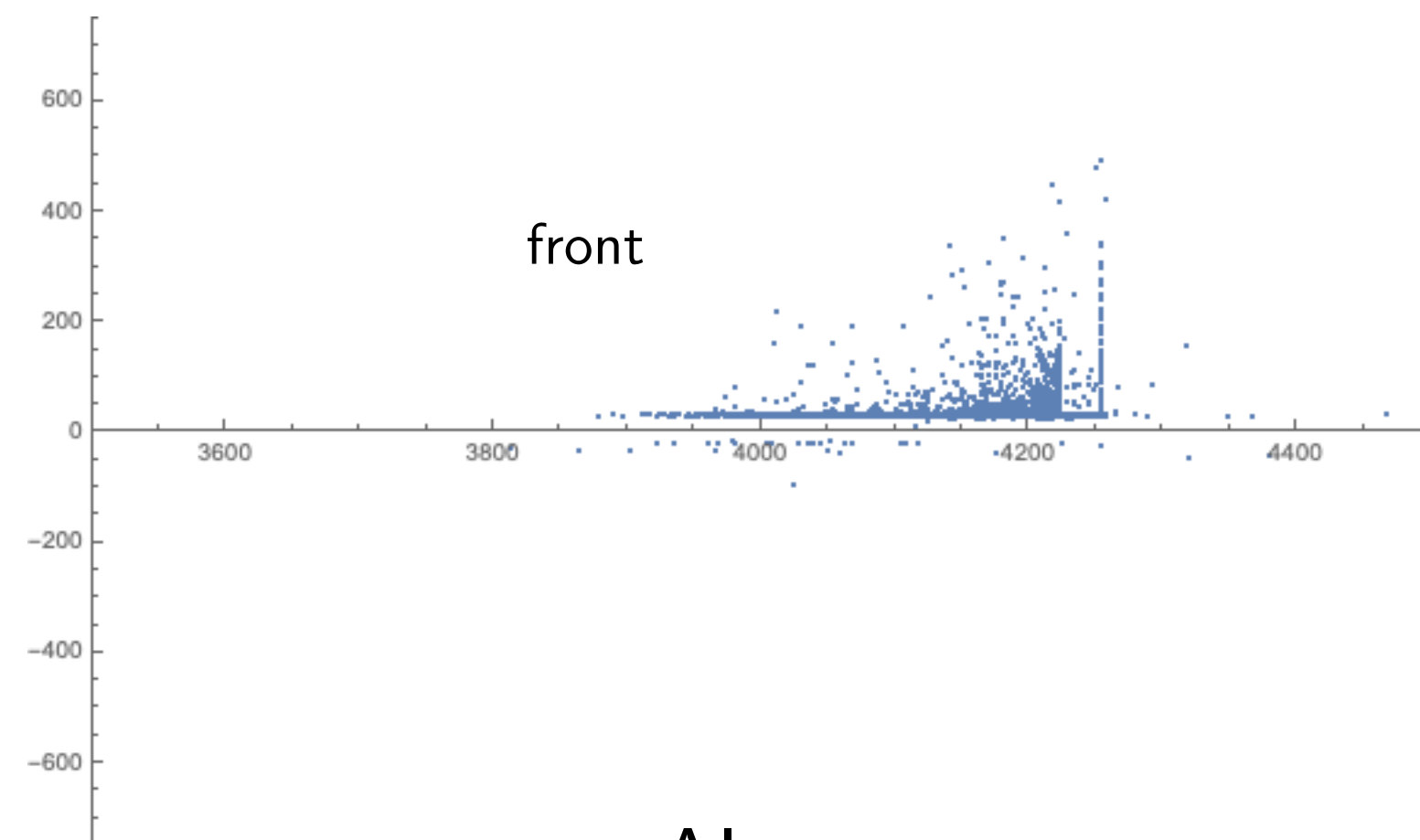
Al

- Total Edep rises to 2.6 times
- Peak Edep rises to 3.1 times
- For signal, ECAL occupancy increased, but not significantly

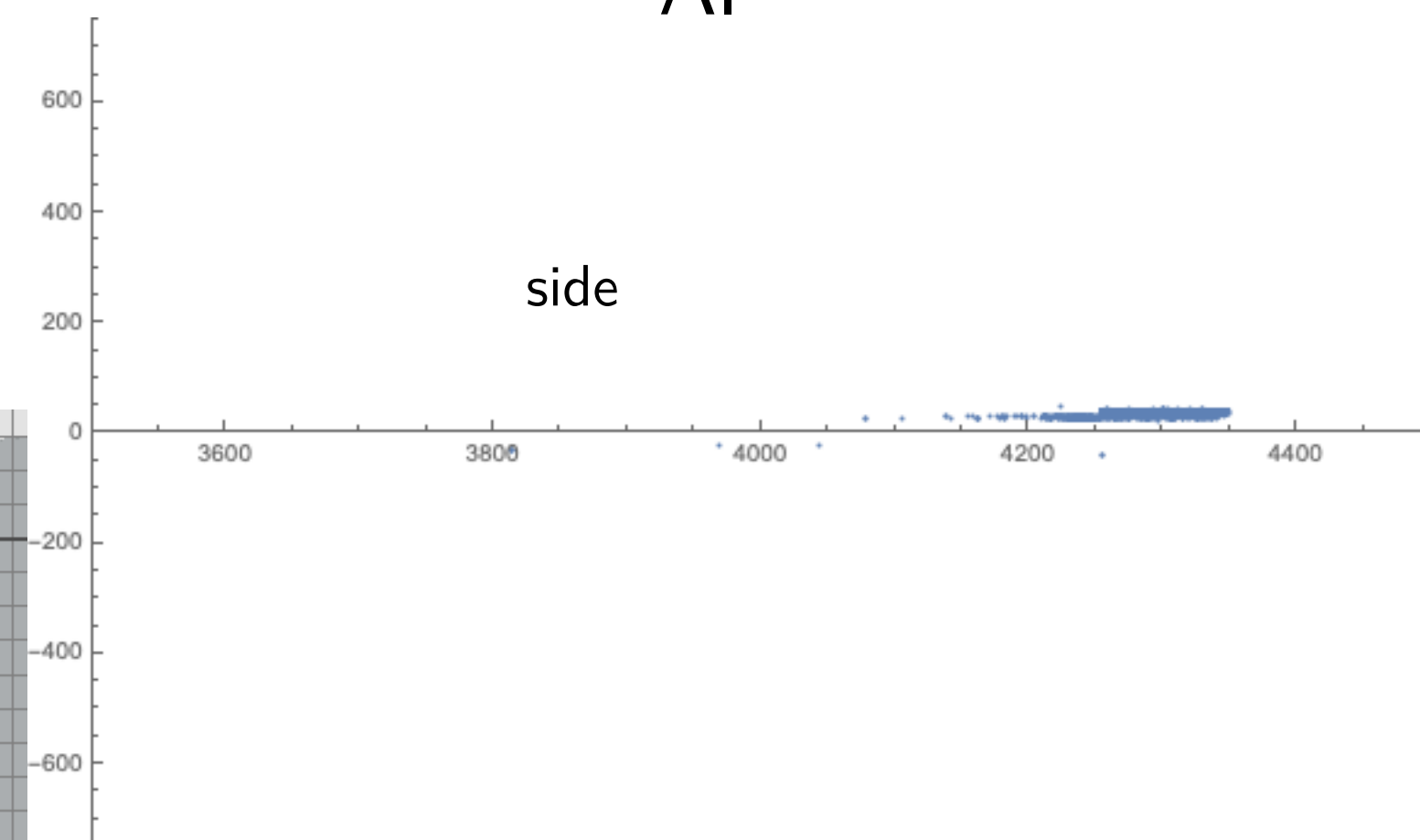




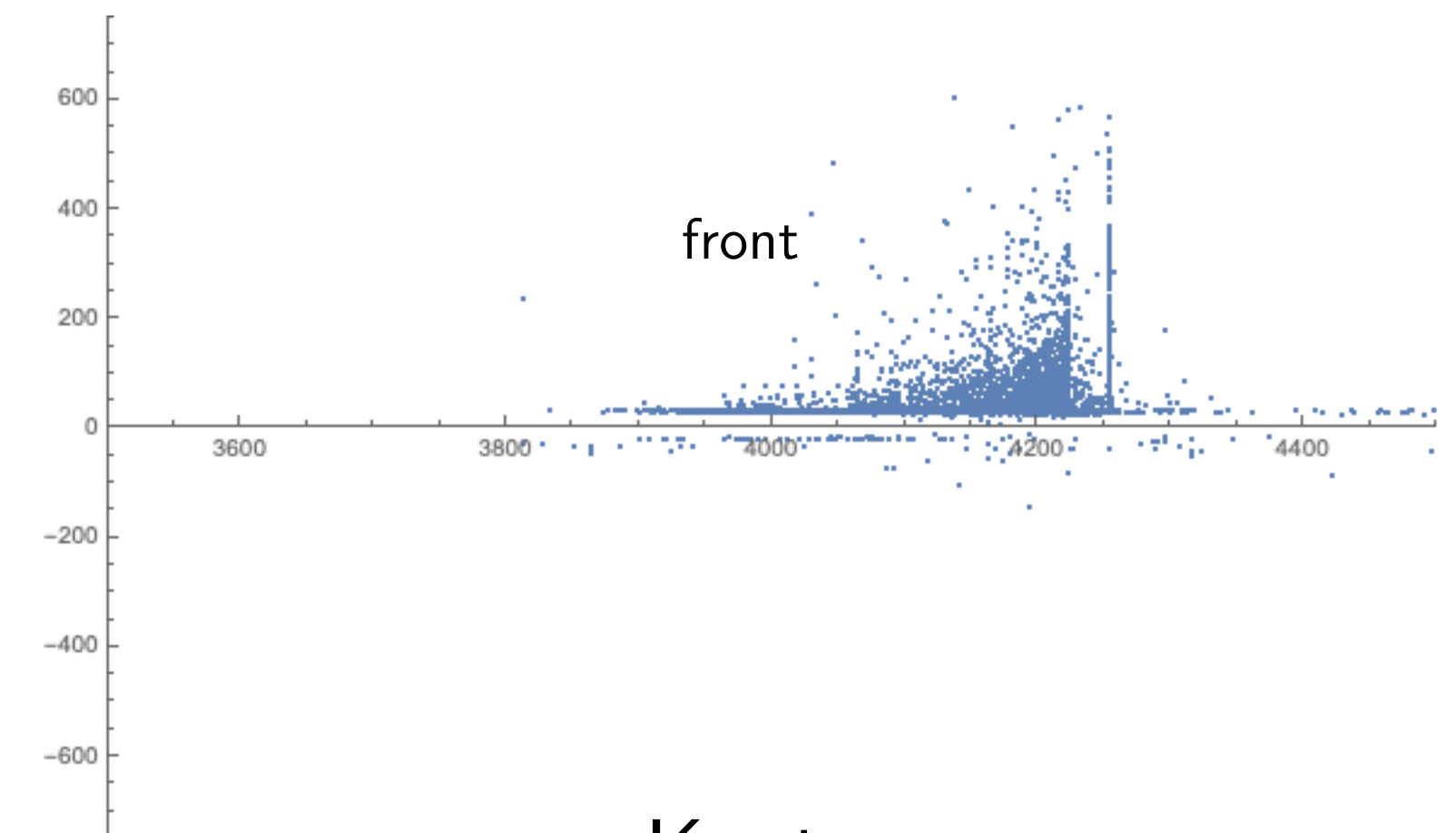
- Peak energy went down for new window
- Particle number “uniformly” increased over “low”-energy region



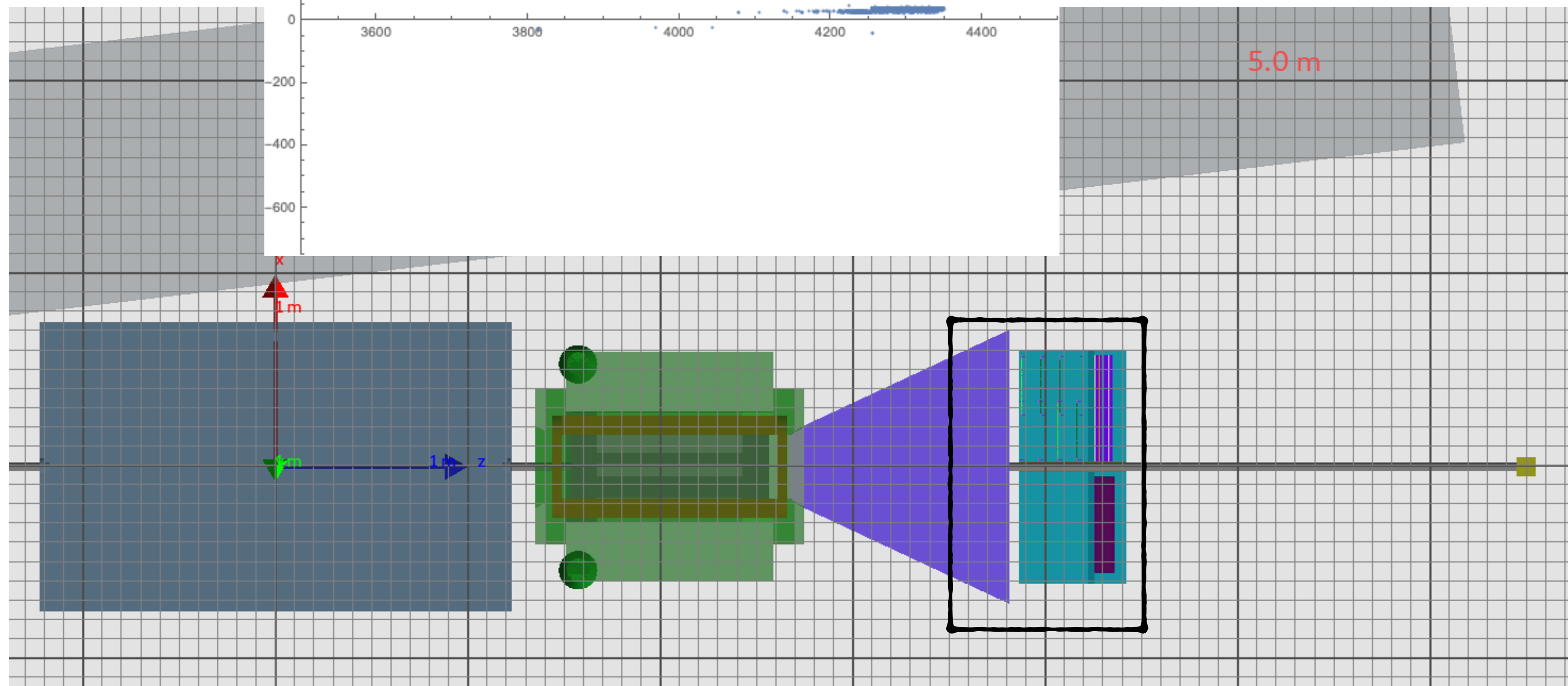
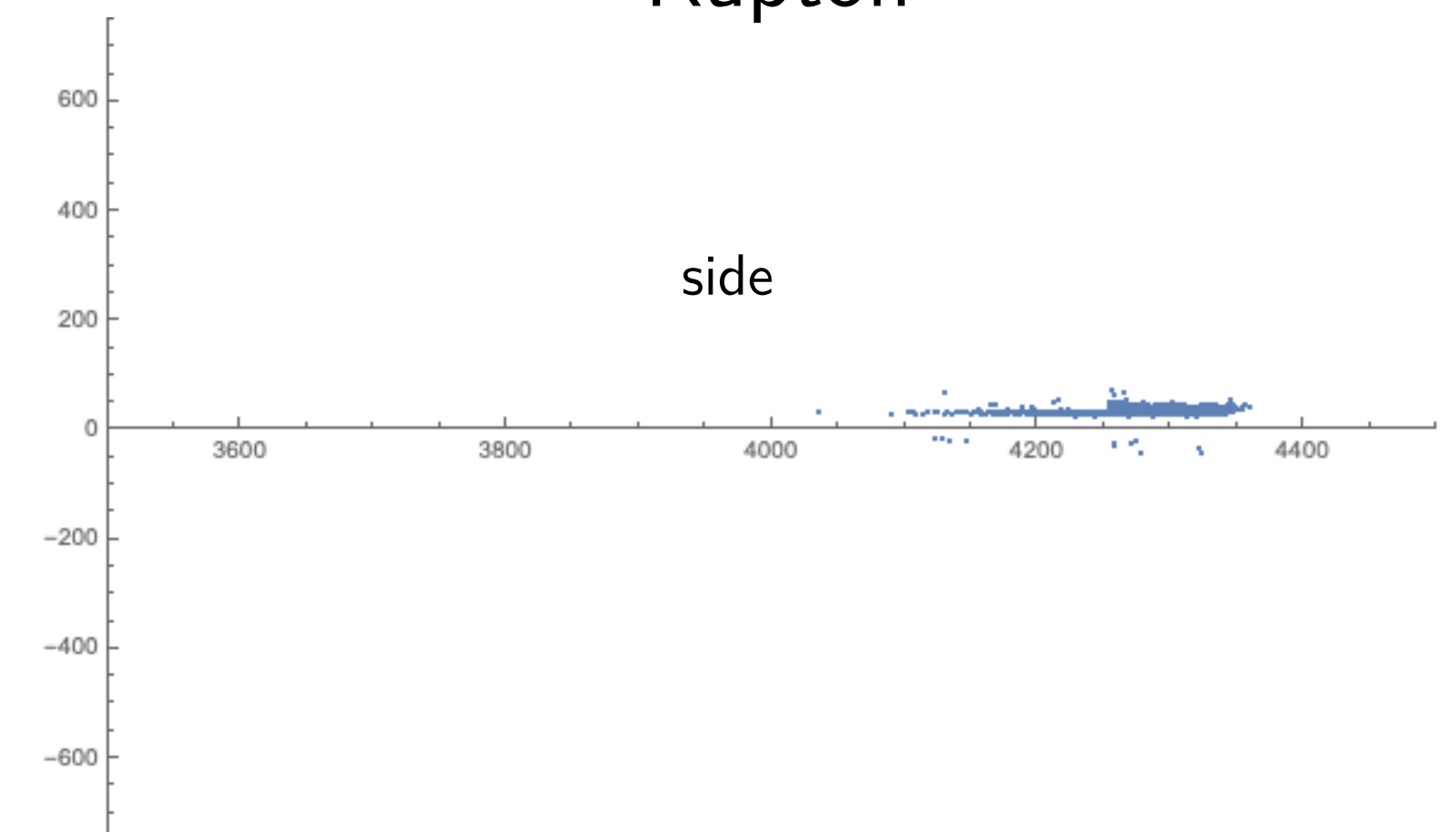
AI

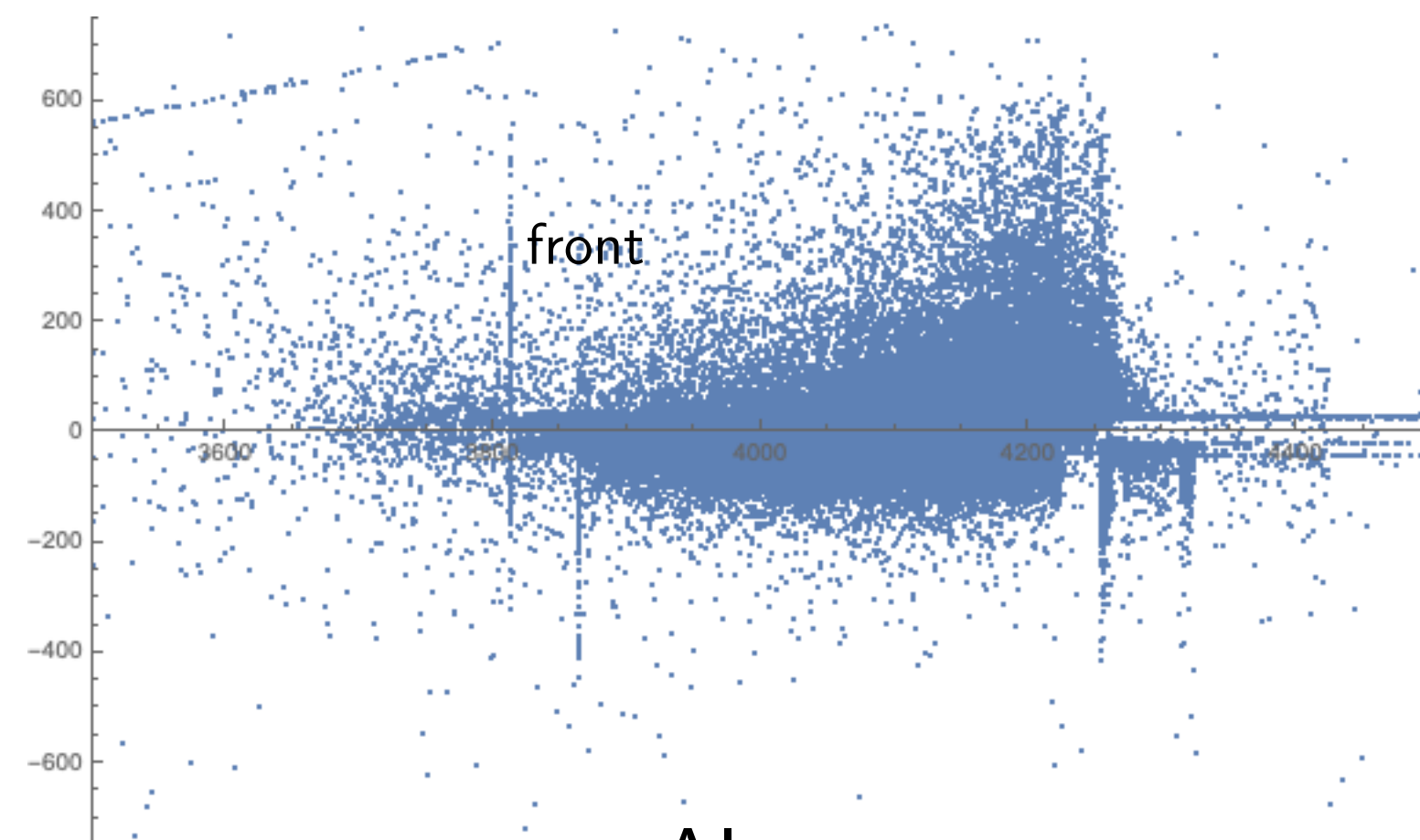


Positron vertex
point plot



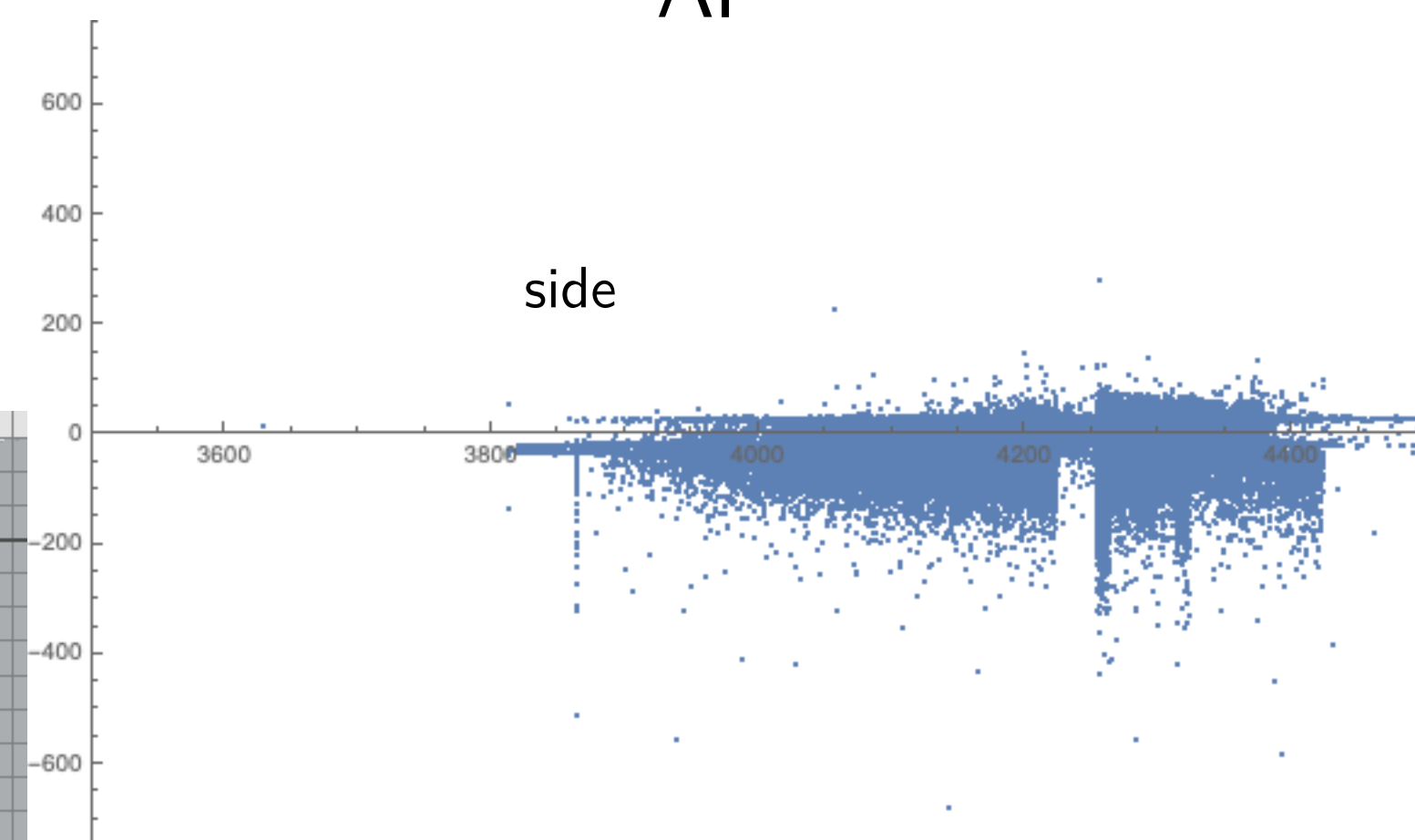
Kapton





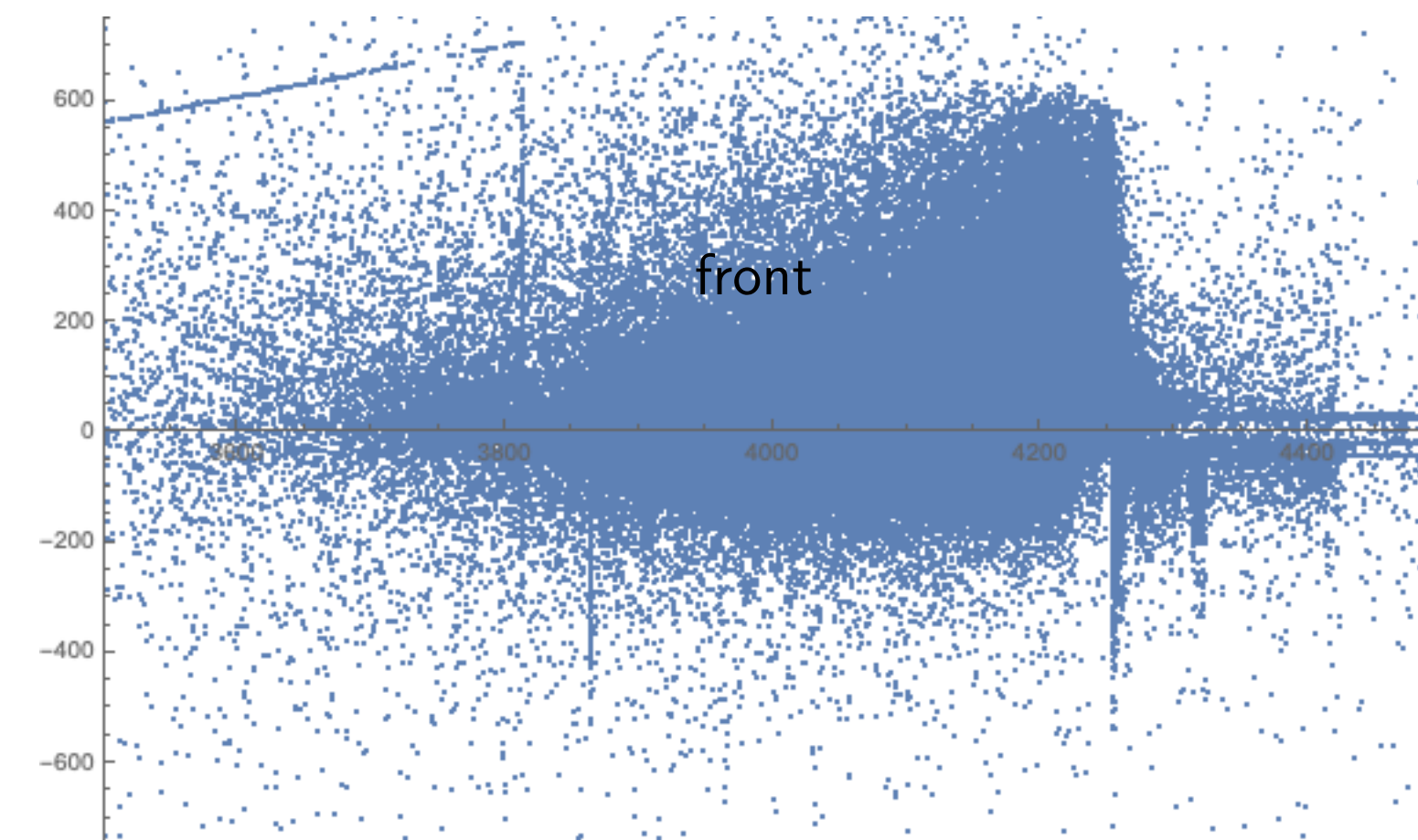
front

AI



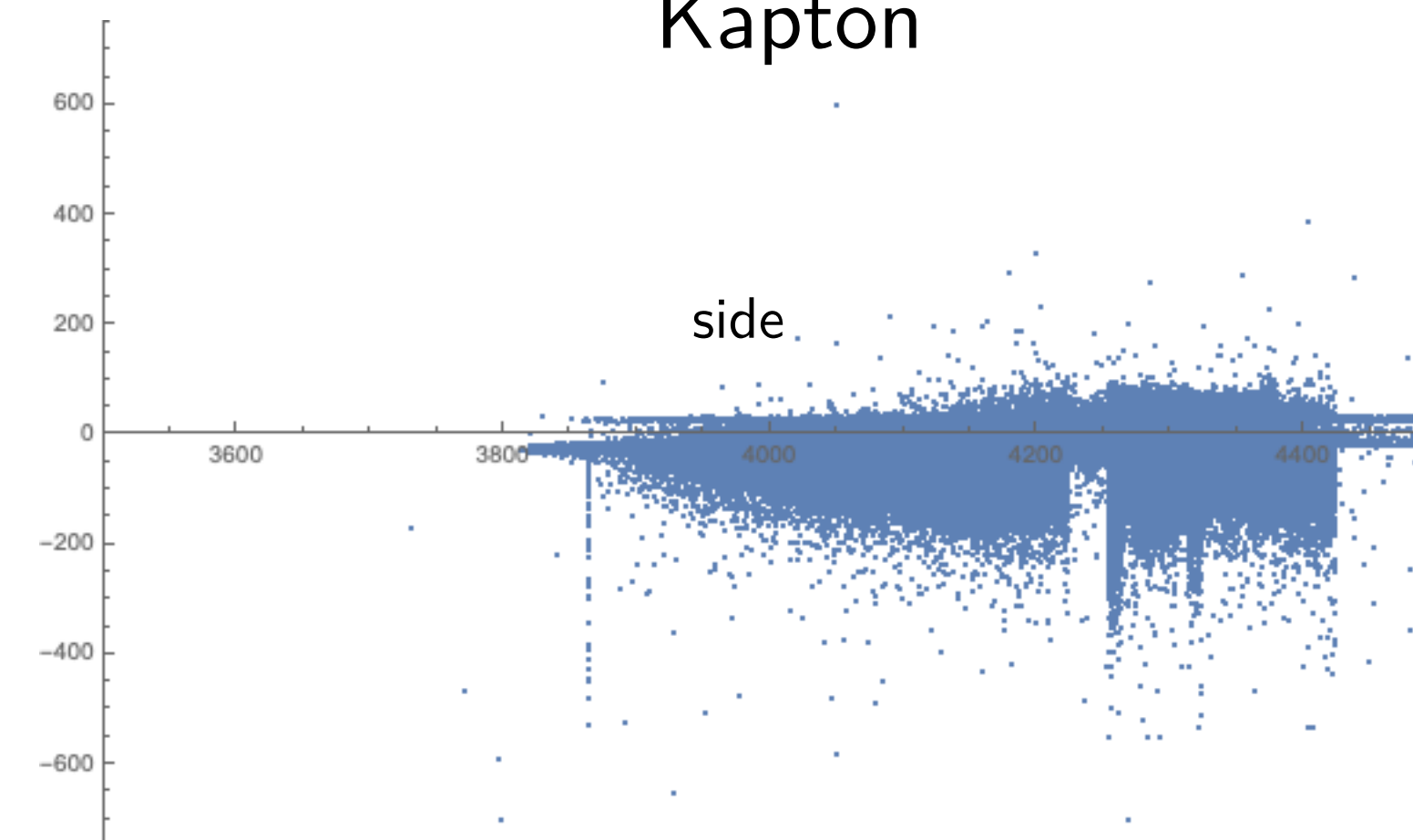
side

Photon vertex
point plot

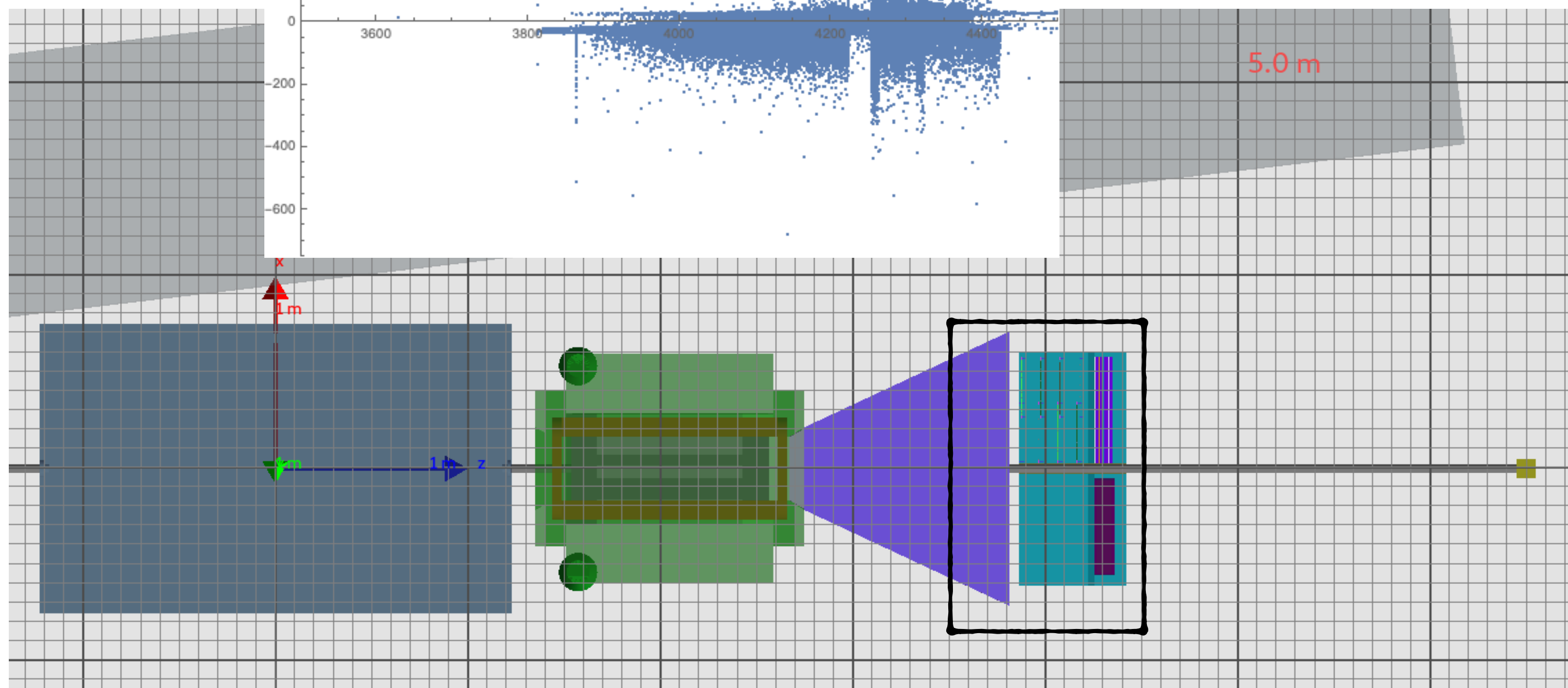


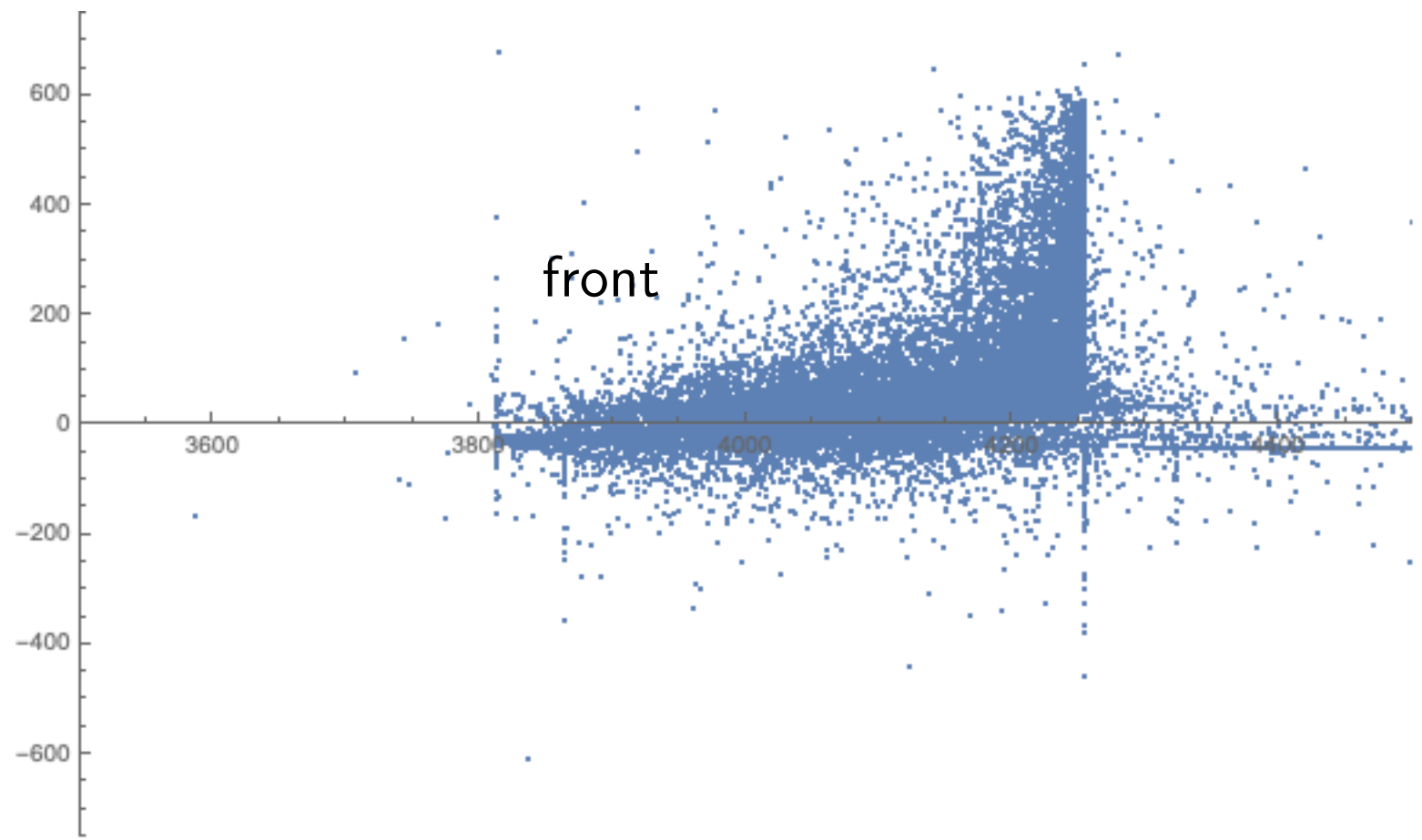
front

Kapton



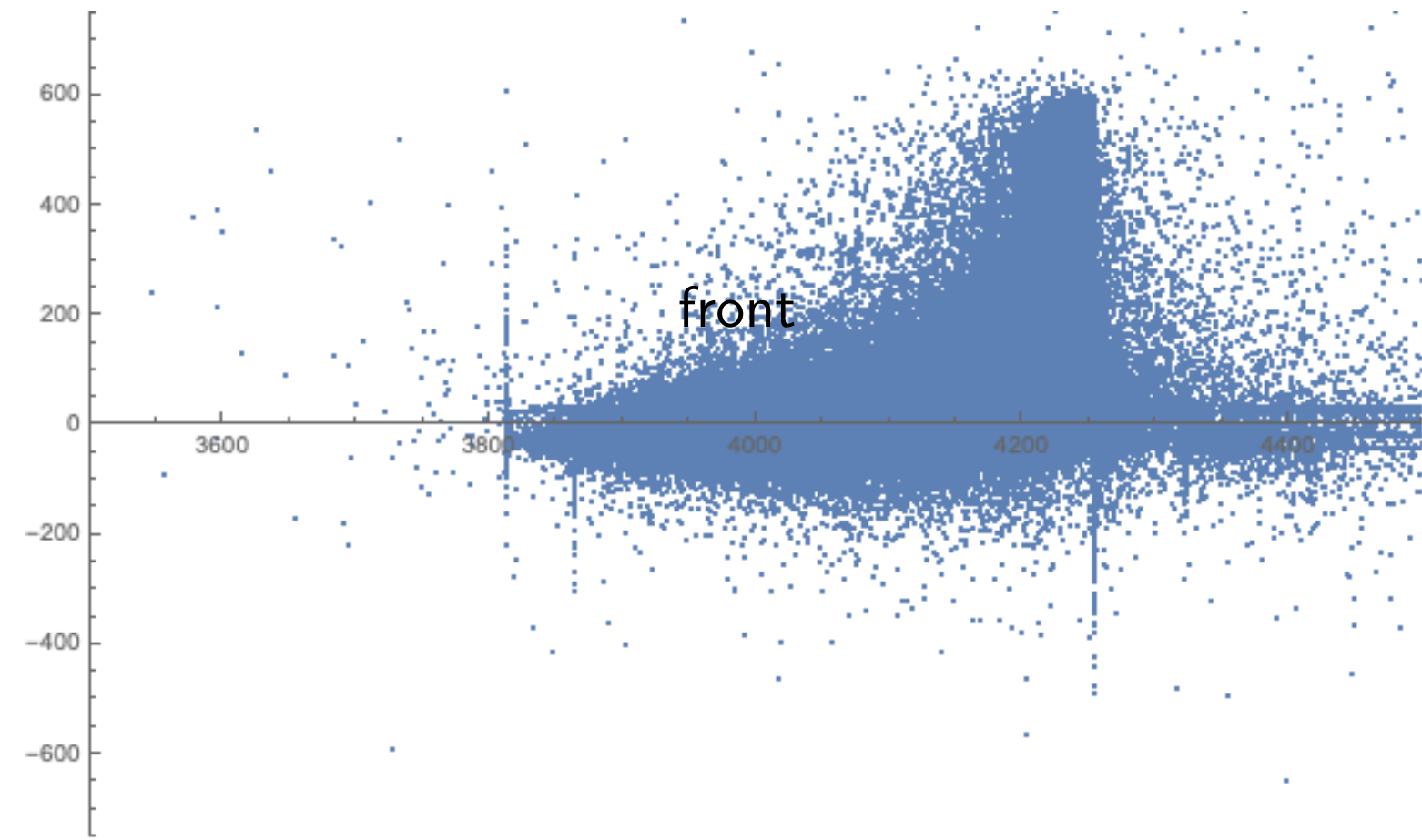
side





AI

Electron vertex
point plot



Kapton

