### **MAPS Simulation Status**

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MAPS meeting at Rutherford Appleton Laboratory

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# Mean Energy of Cell\_hits v.s. Cell size

(Si sensitive thickness:15um, 100 GeV single electron)



One MIP per cell starts from ~100um cell size. Simultaneously, angle effect (one particle pass cell boundary) becomes significant.

### #Cell\_hits / Event v.s. Cell size

(Si sensitive thickness:15um, 100 GeV single electron)



## Total Energy / Event v.s. Cell size

(Si sensitive thickness:15um, 100 GeV single electron)



# **Plans for next meeting**

Understading why 'hit->getNMCContributions()' gives  $4\sim5$  hits for one MIP hit. ( $12^{th}$  July slides: It gives  $4\sim5$  secondary hits in one cell hit even for muon case. Therefore it will be step size or something, but not yet understood completely.)

- Secondary shower angle distribution isn't understood yet. (Related on the above.)
- Study for lines of 48 contiguous pixels (Recently started)