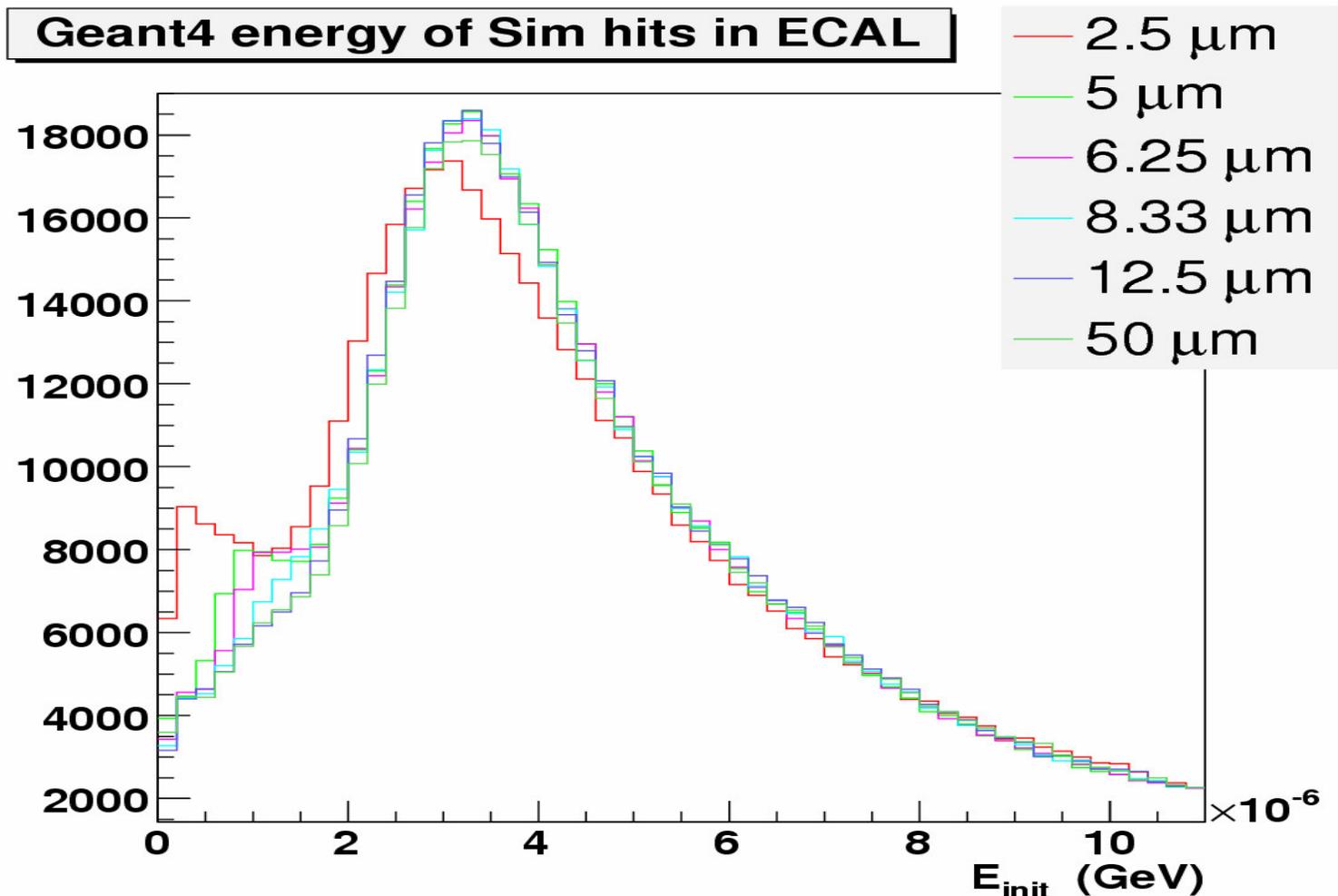


# Quick update on digitisation

Geant4/Mokka/LCIO bug with last Mokka  
Step by step effect of the digitisation on the  
energy resolution

# Issue with small cell

- Updated plot with last Mokka version





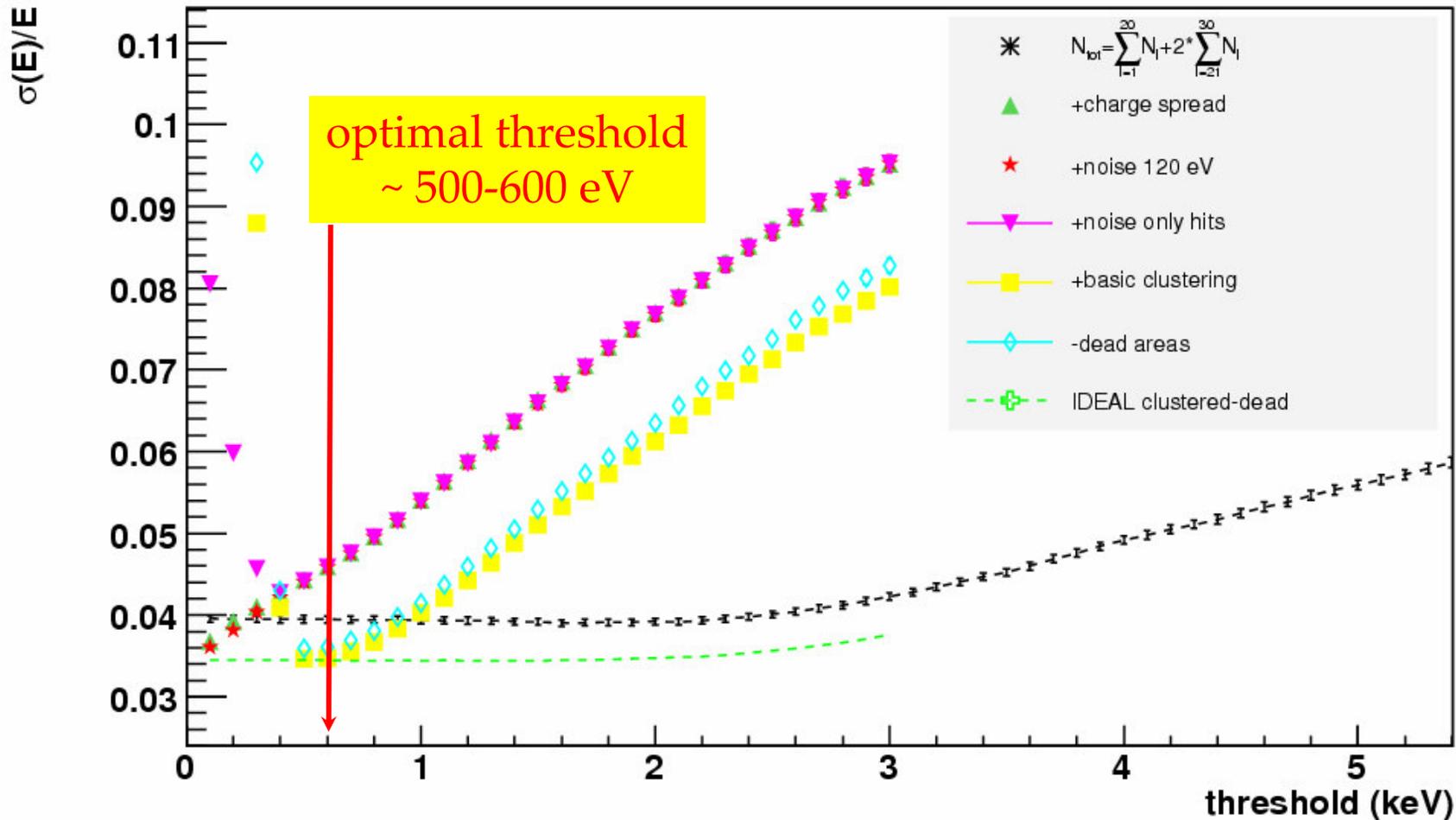
# Step by step effect of the digitisation on the energy resolution

- Example for 20 GeV electrons, step by step, in function of the threshold :
  - 1- Ideal case : geant4 energy
  - 2- after charge sharing
  - 3- after noise adding ( currently pessimistic : 40e-)
  - 4- Simple clustering based on closest neighbours
  - 5- after removal of dead area (5 pixels every 42 pixels)

# Results on the energy resolution vs threshold after each step

**VERY PRELIMINARY**

$\sigma(E)/E$  vs Threshold, electron 20 GeV



# In terms of number of hits

**VERY PRELIMINARY**

**Mean number of hits vs Threshold, electron 20 GeV**

