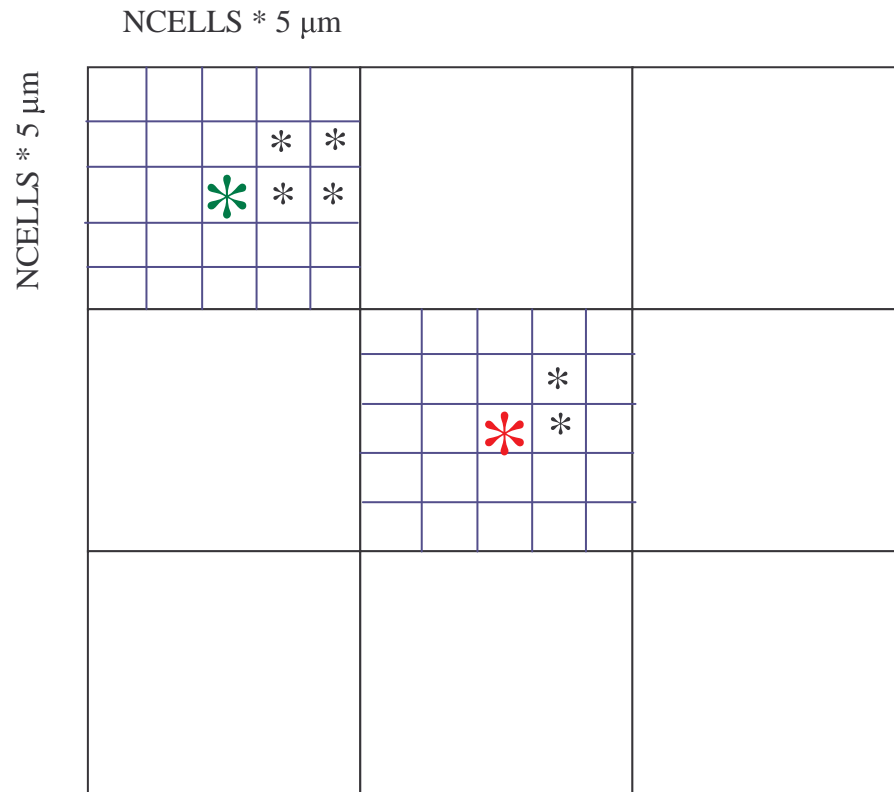


MAPS digitisation

Program is ready !

- ⌘ Need : input from Giulio's for charge collected by the 4 diodes, depending on the position of the MIP, and of the pixel size.
- ⌘ following plots are done with meaningless data.

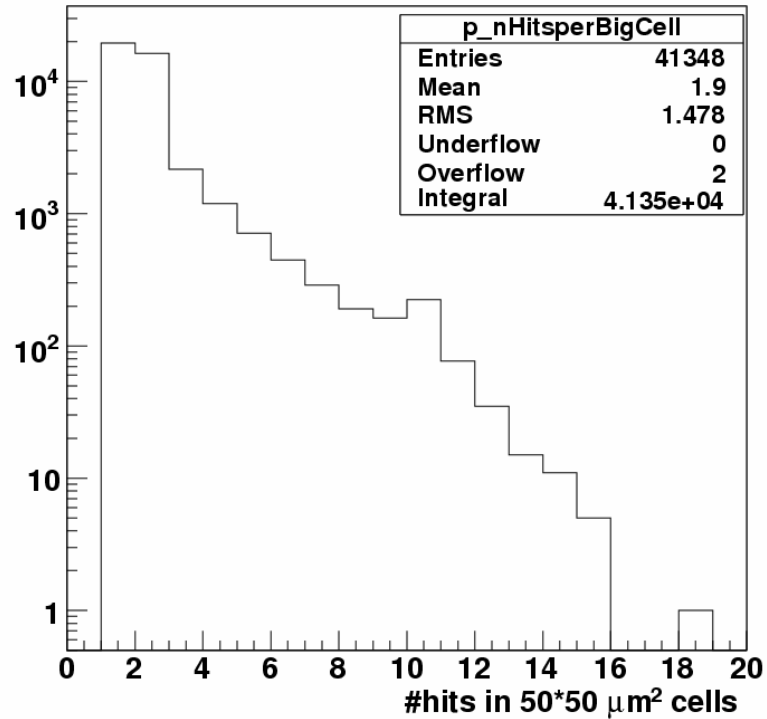


$$E_{\text{geant4}} = \Sigma (E_{\text{hits}_{5 \times 5 \mu\text{m}^2}})$$

$$E_{\text{final}} = \Sigma (E_{\text{hits}(\text{cell})} * \text{charge}(\text{cell's diode})) + \Sigma (E_{\text{hits}(\text{neighbours})} * \text{charge}(\text{neighbours_on_cell's diodes}))$$

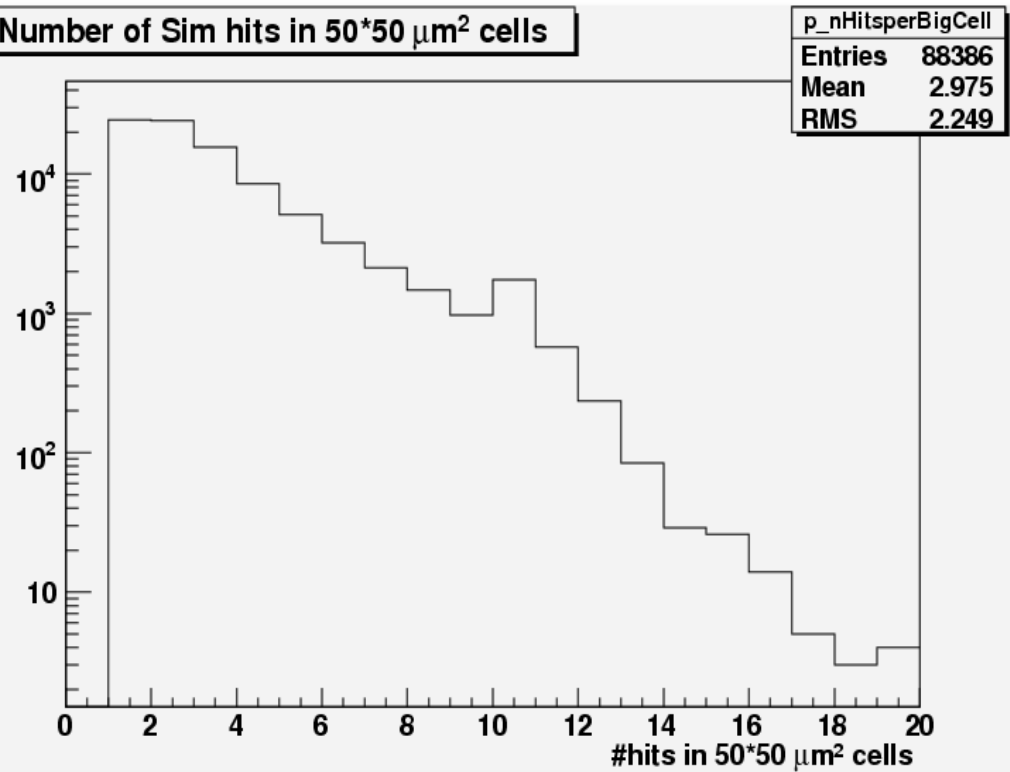
Muon 10 GeV
1000 evts

Number of Sim hits in 50*50 μm^2 cells



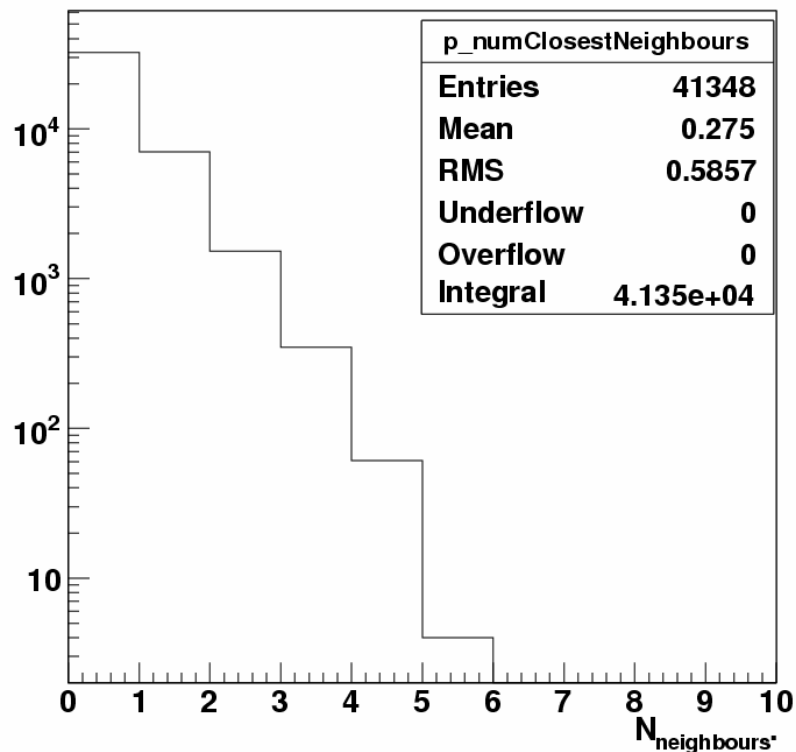
Electron 100 GeV
9 events

Number of Sim hits in 50*50 μm^2 cells



Muon 10 GeV
1000 evts

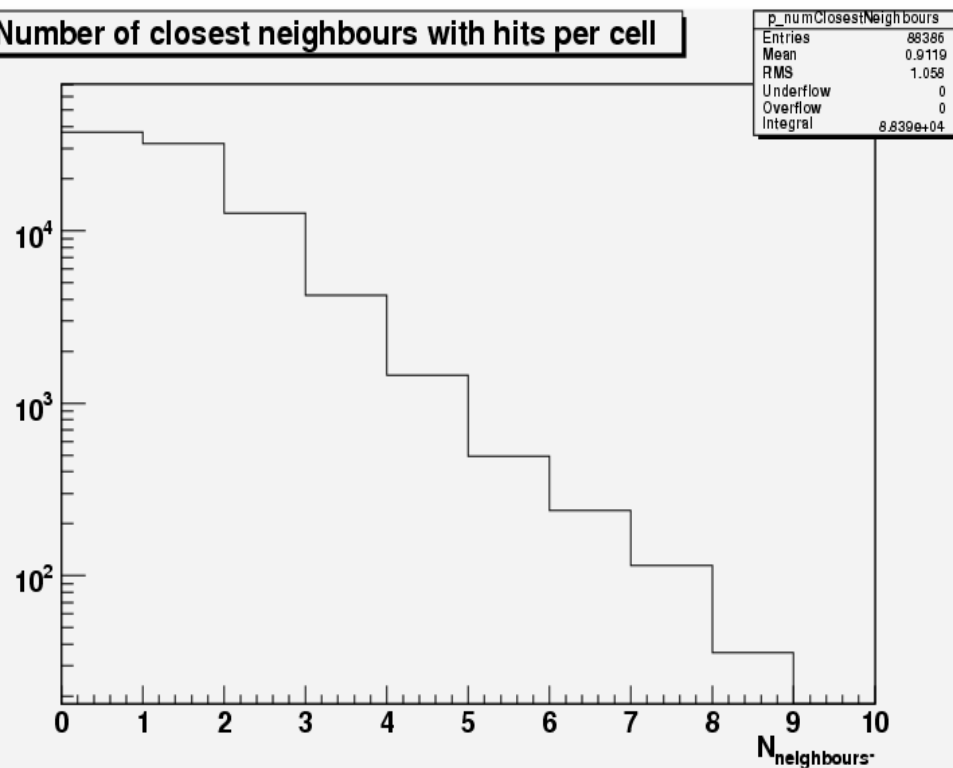
Number of closest neighbours with hits per cell



12th July 2006

Electron 100 GeV
9 events

Number of closest neighbours with hits per cell



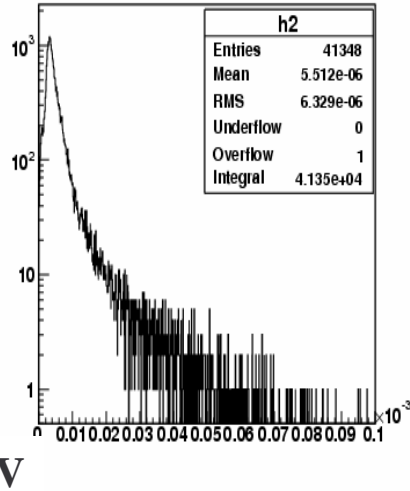
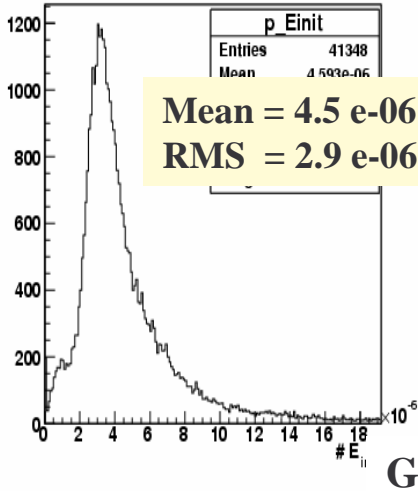
A.-M. Magnan - ICLondon

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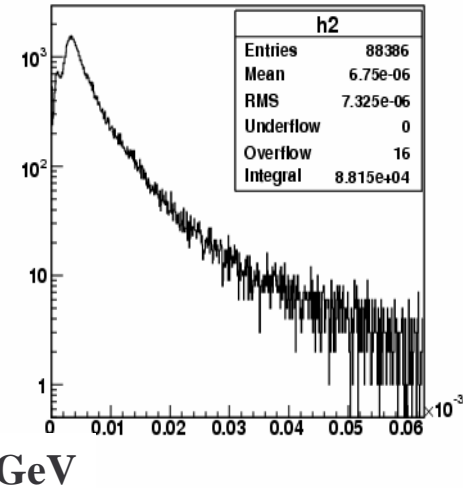
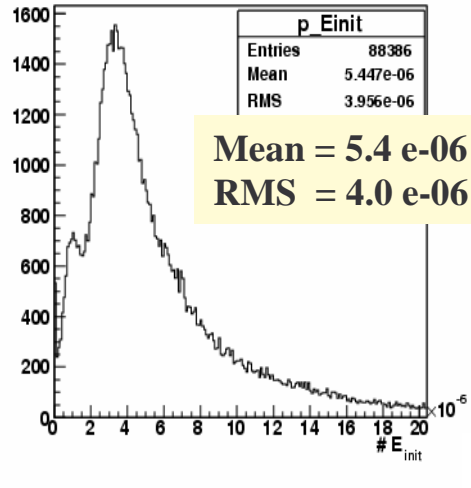
Muon 10 GeV
1000 evts

Electron 100 GeV
9 events

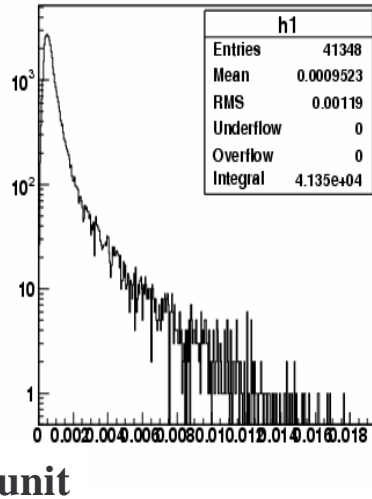
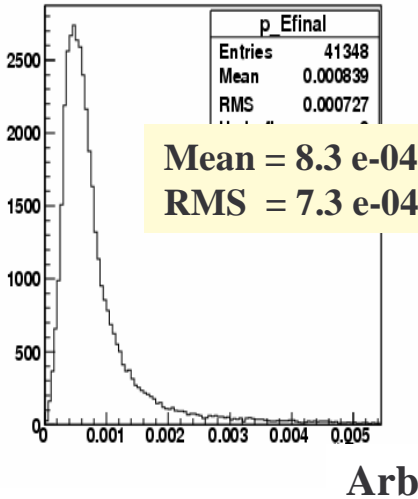
Geant4 energy of Sim hits in ECAL



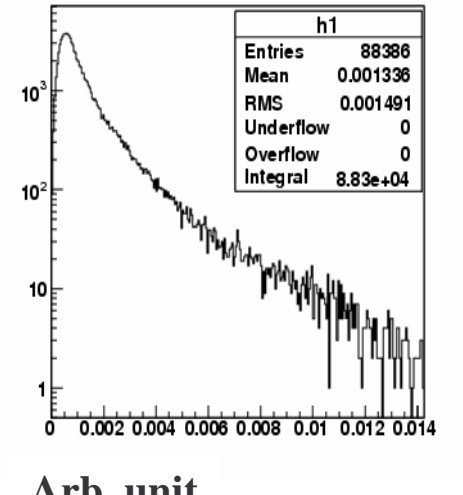
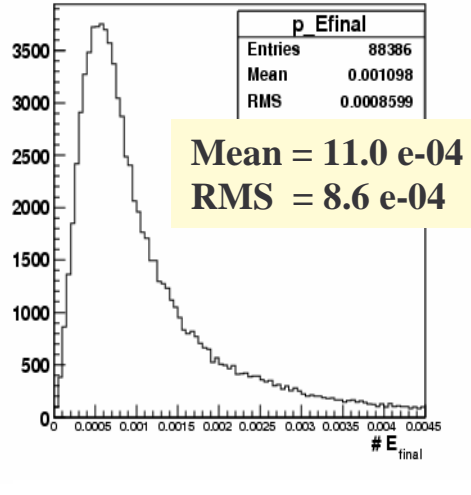
Geant4 energy of Sim hits in ECAL



Energy after charge spread of Sim hits in ECAL



Energy after charge spread of Sim hits in ECAL



Thank you !