Ionisation-peaks' widths

EM

minical

GEANT4 x1.3

GEANT4

width (MeV)

atomic number
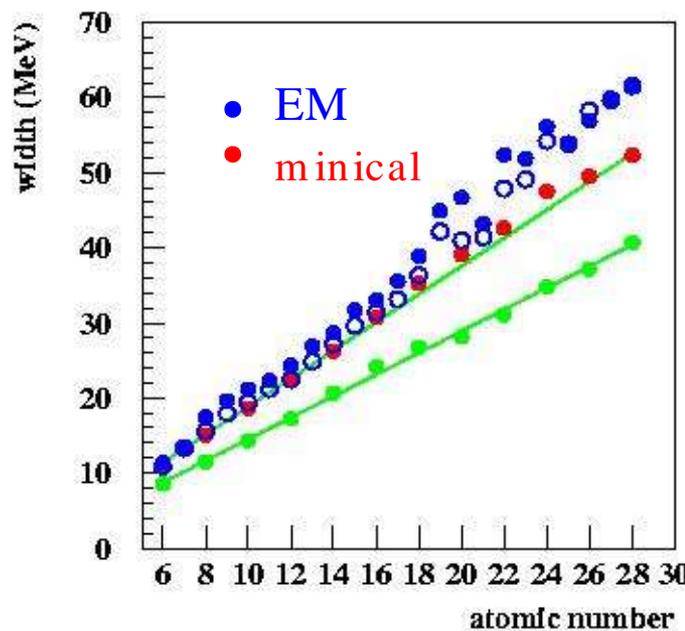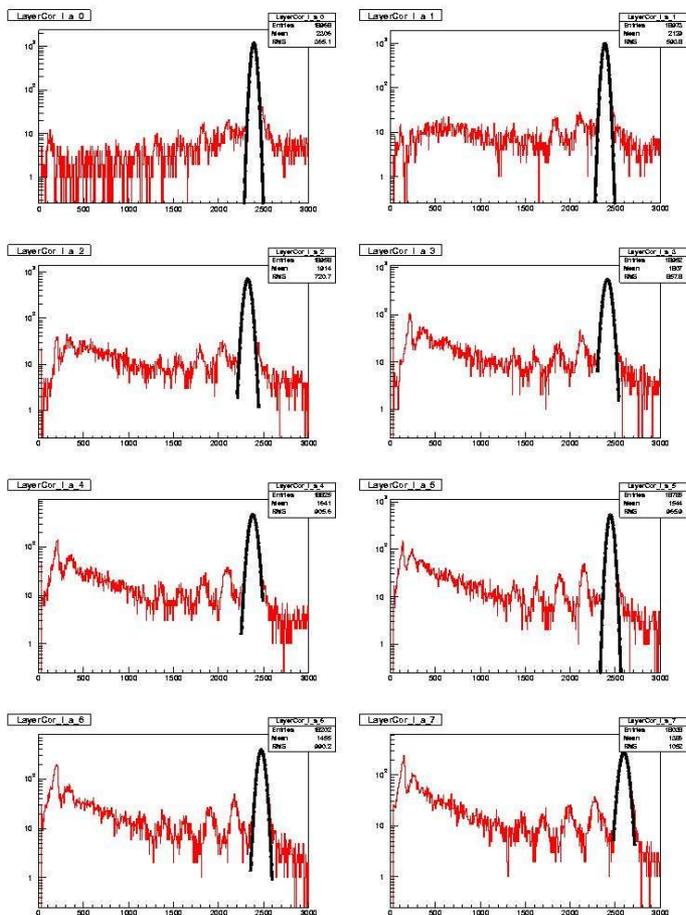
Experimental broadening for monoenergetic protons or cosmic muons: 0.6 MeV (~5%)
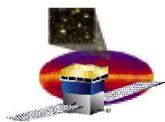
# Relative spread for the ion peaks
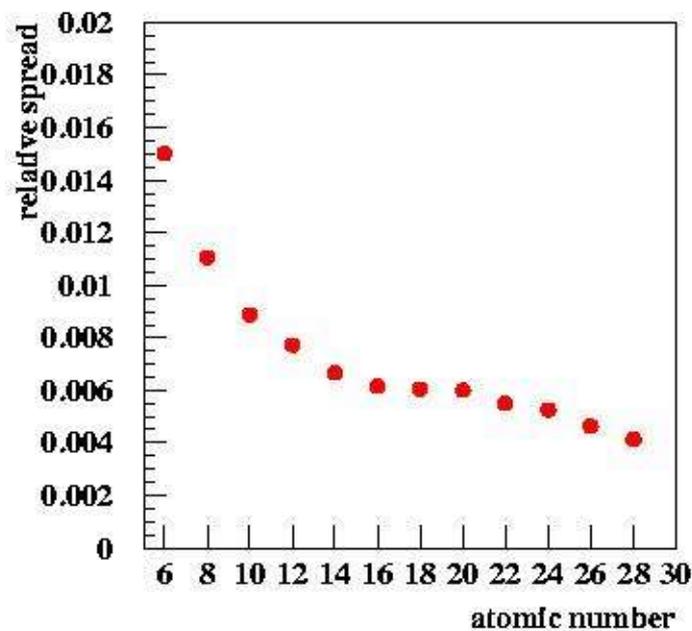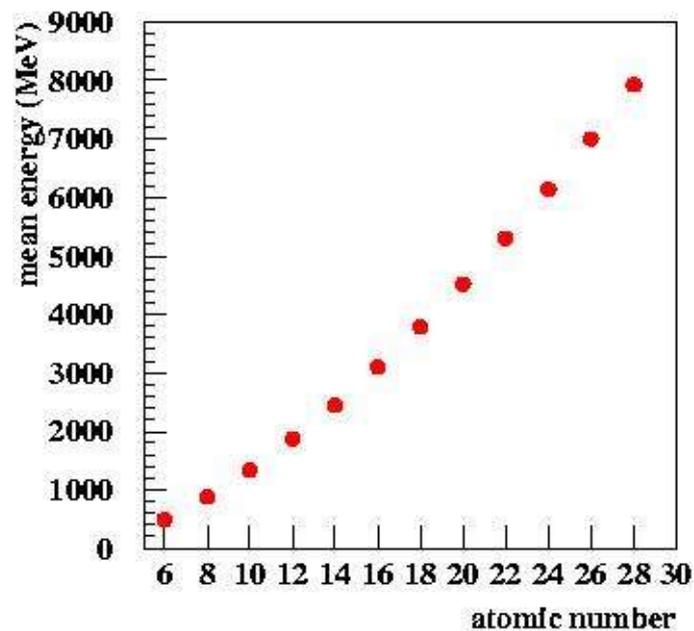
$$\text{Relative spread} = \sqrt{(\sigma_{meas}^2 - \sigma_{cal}^2)} / \langle E_{meas} \rangle$$
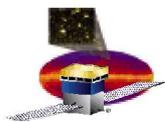
Features of nuclear interactions

Si ions

layer #

col #
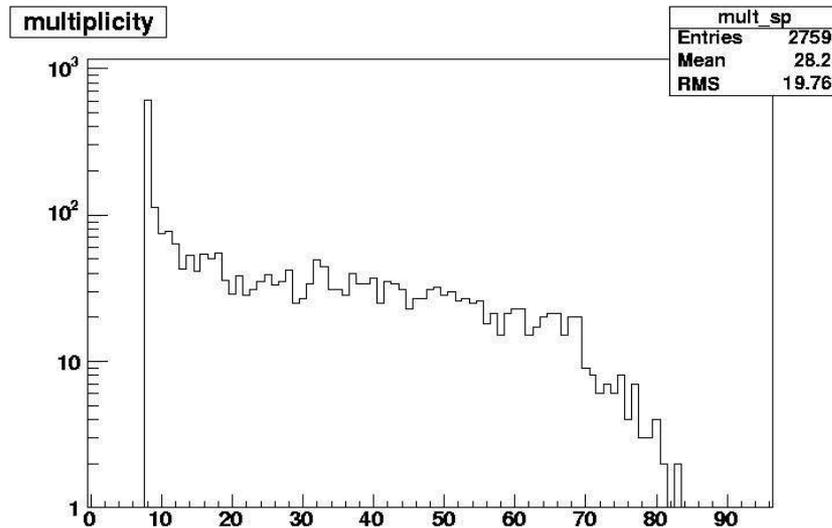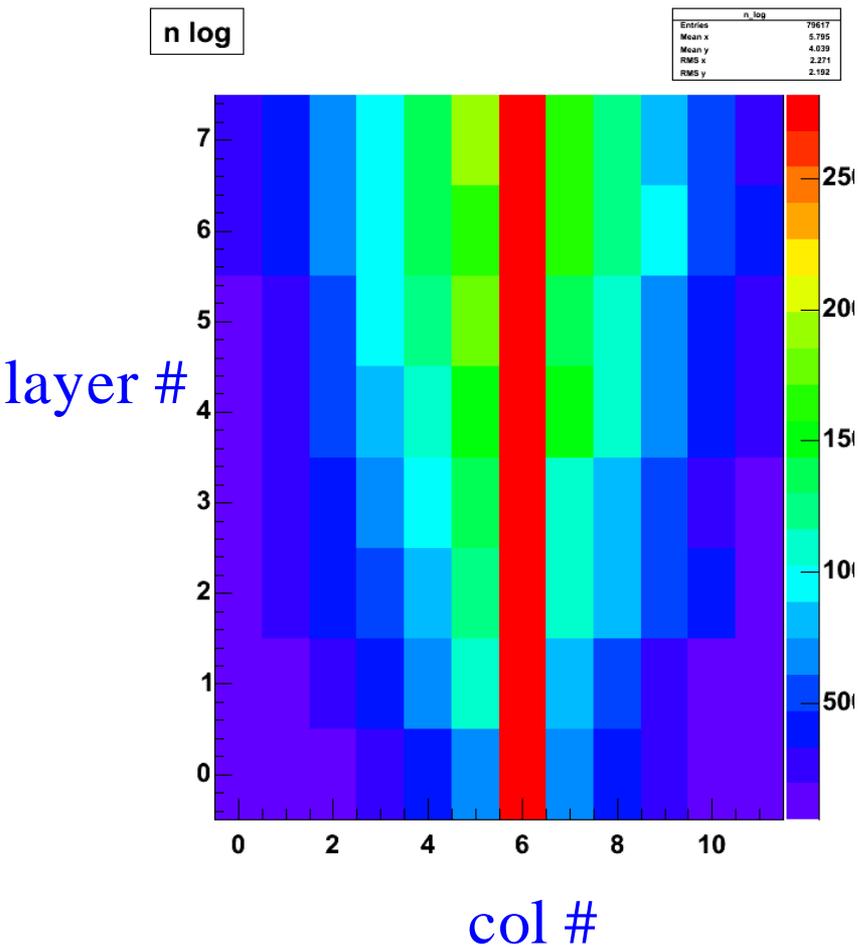
Hit

multiplicity

We have similar data for incident

particles from p to Fe