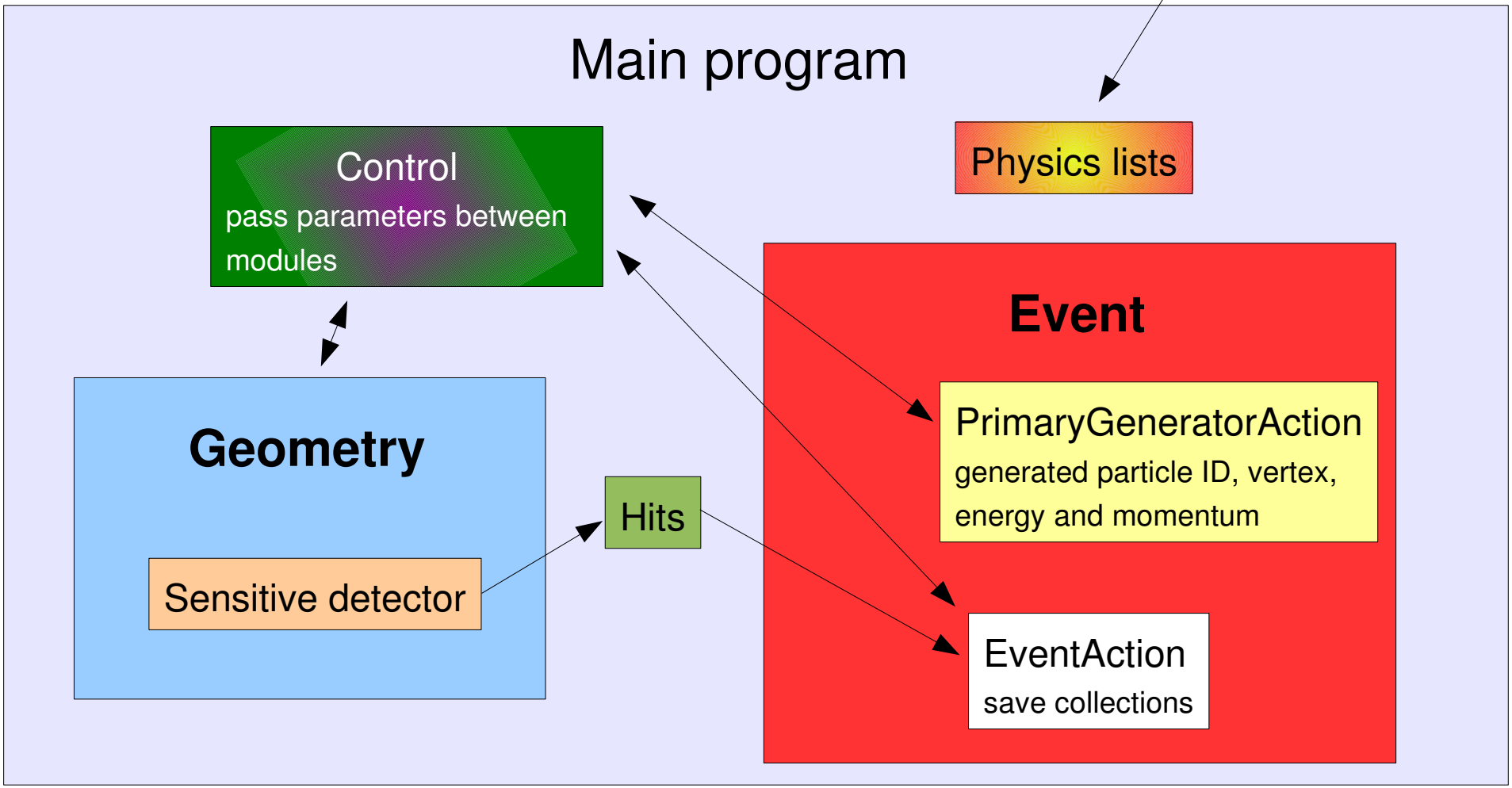
Update on source (TB) setup simulation

Anne-Marie Magnan

Imperial College London

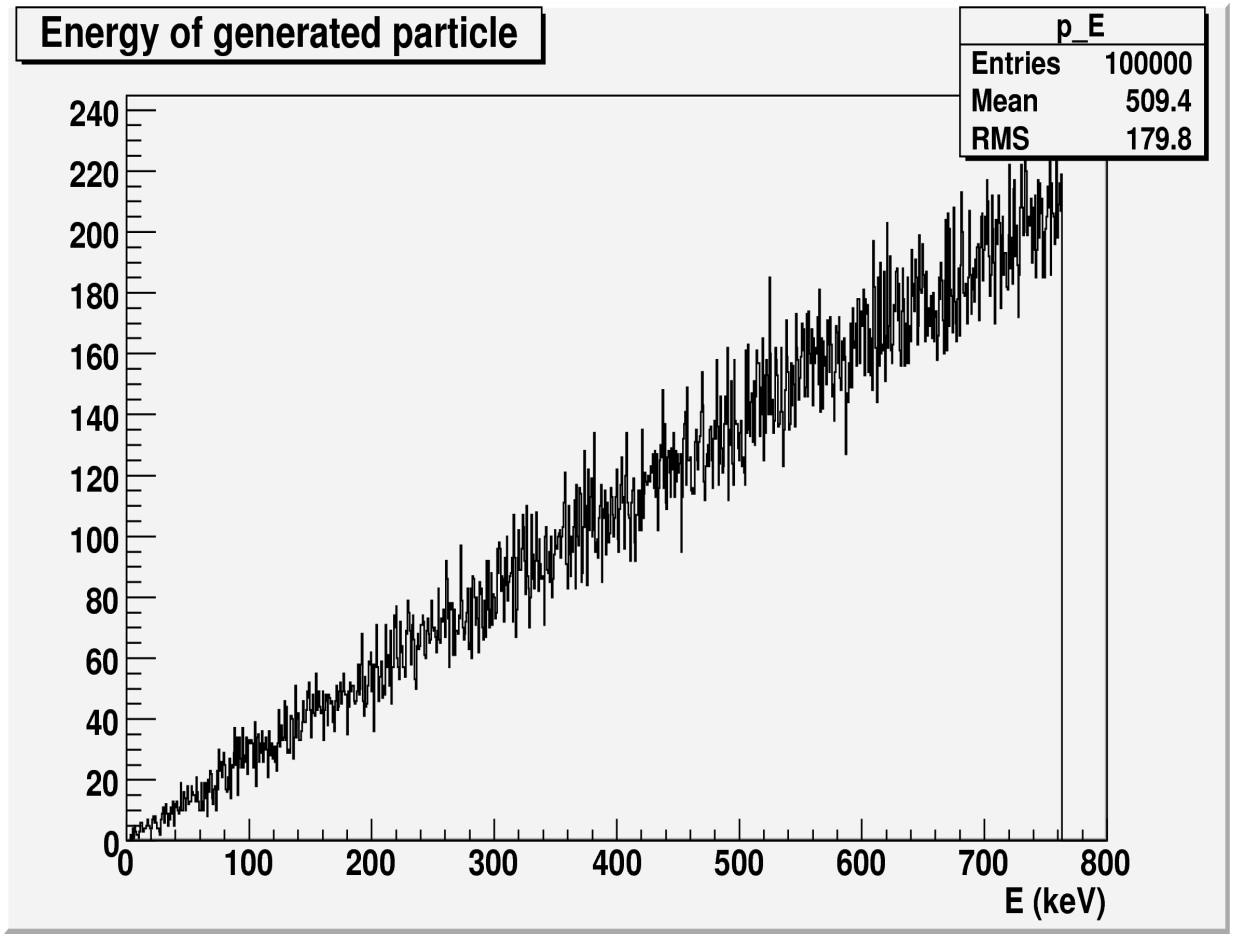
Overview

- New Geant4 application
- Structure:



Source setup

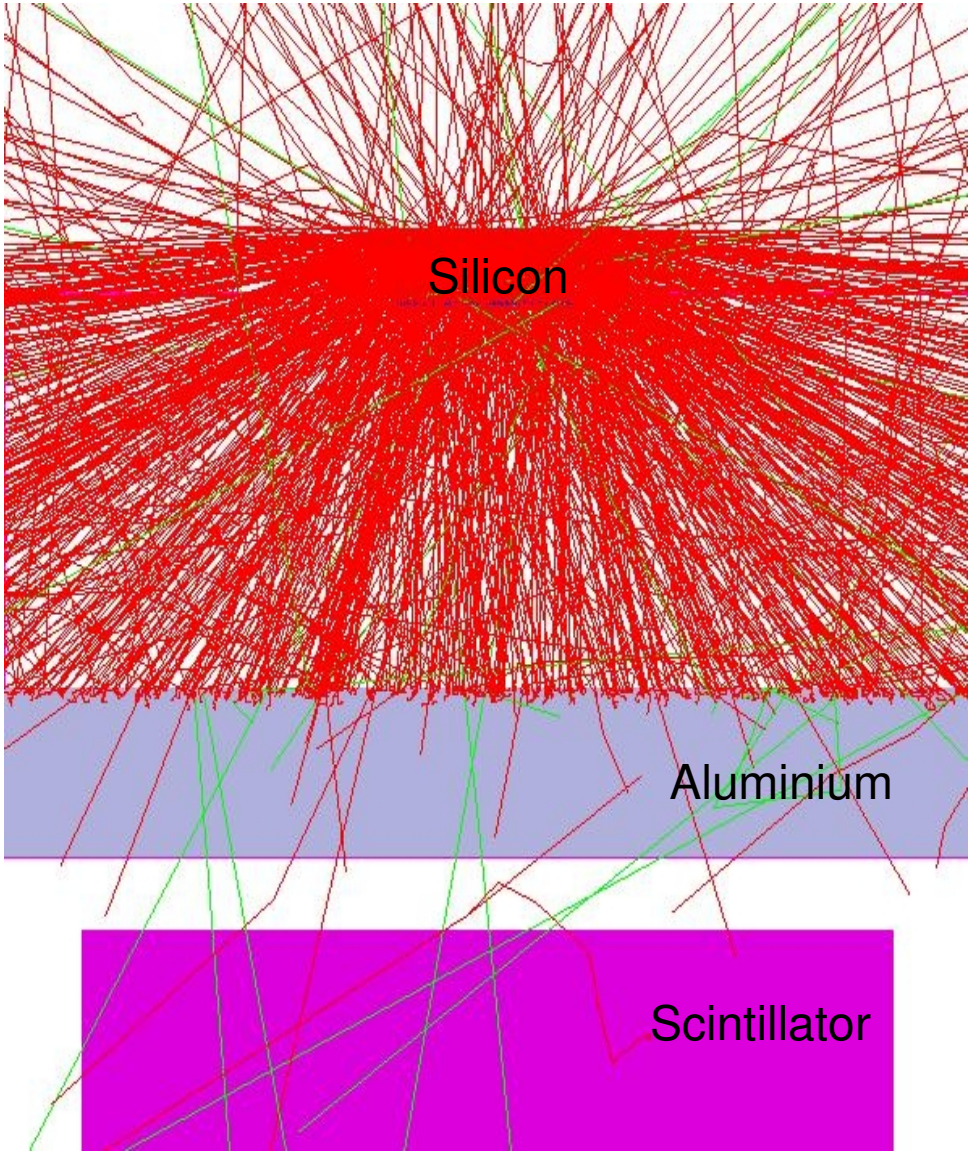
- Energy spectrum of a Thallium source:

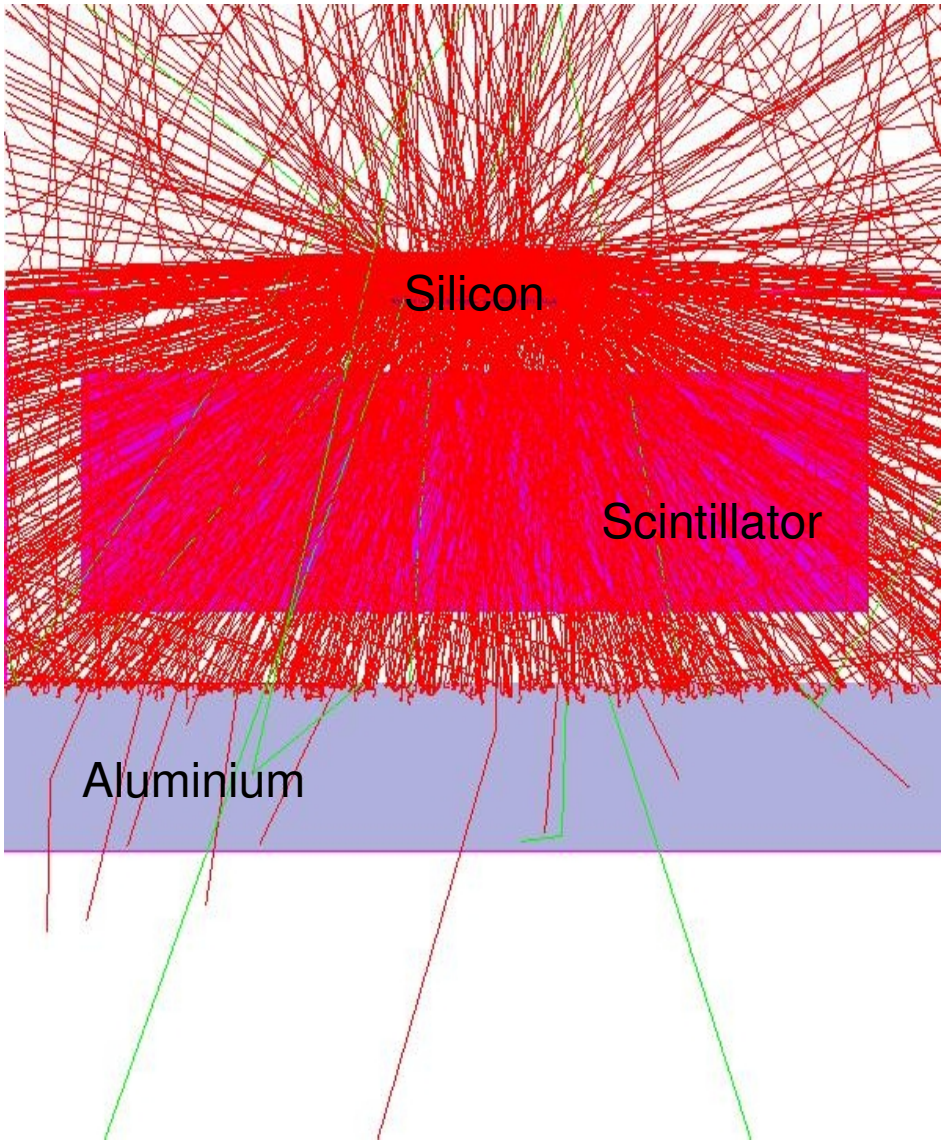


Generated randomly in :
- vertex position over a 1*1 cm2 area
- in momentum in the bottom half space

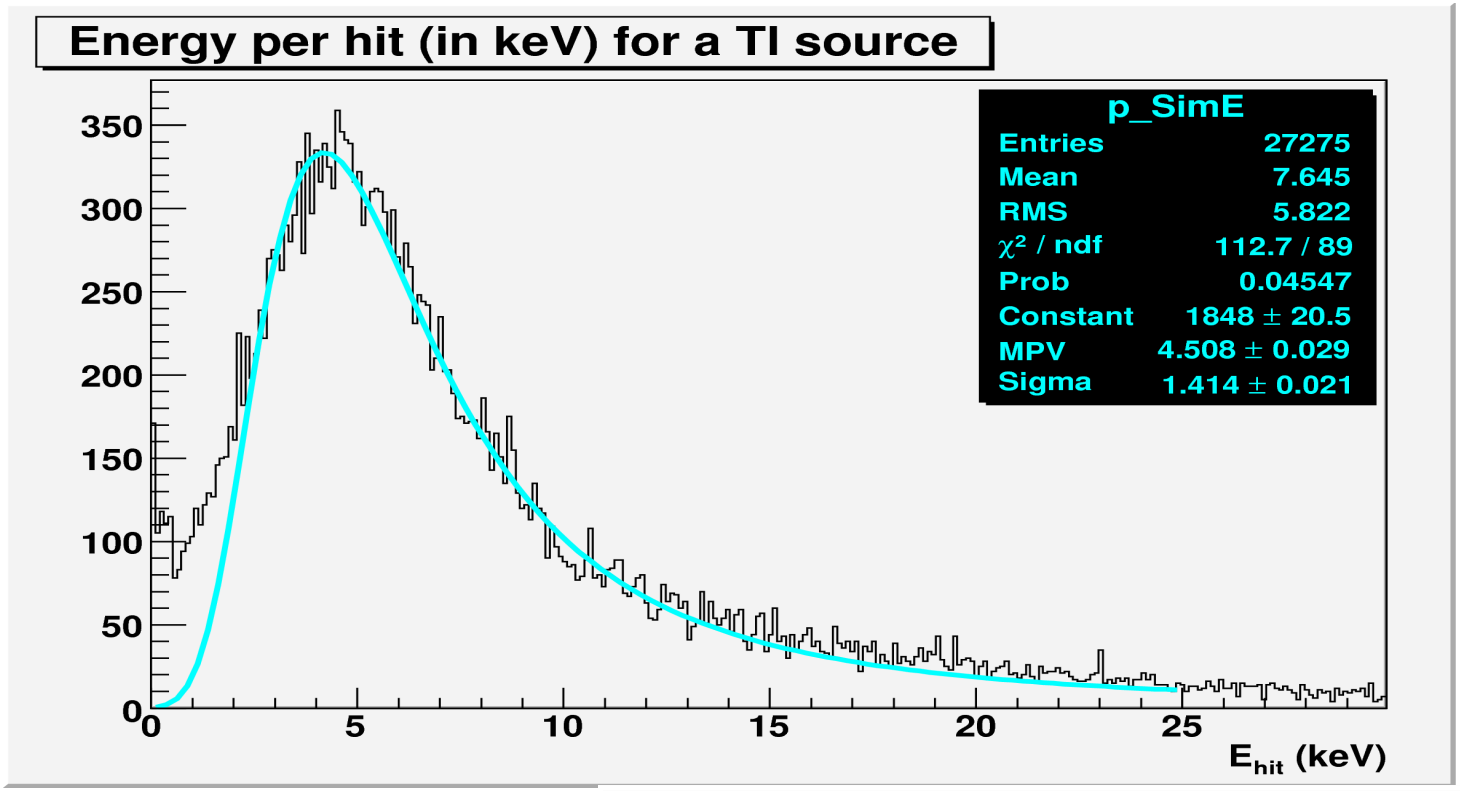
Event displays

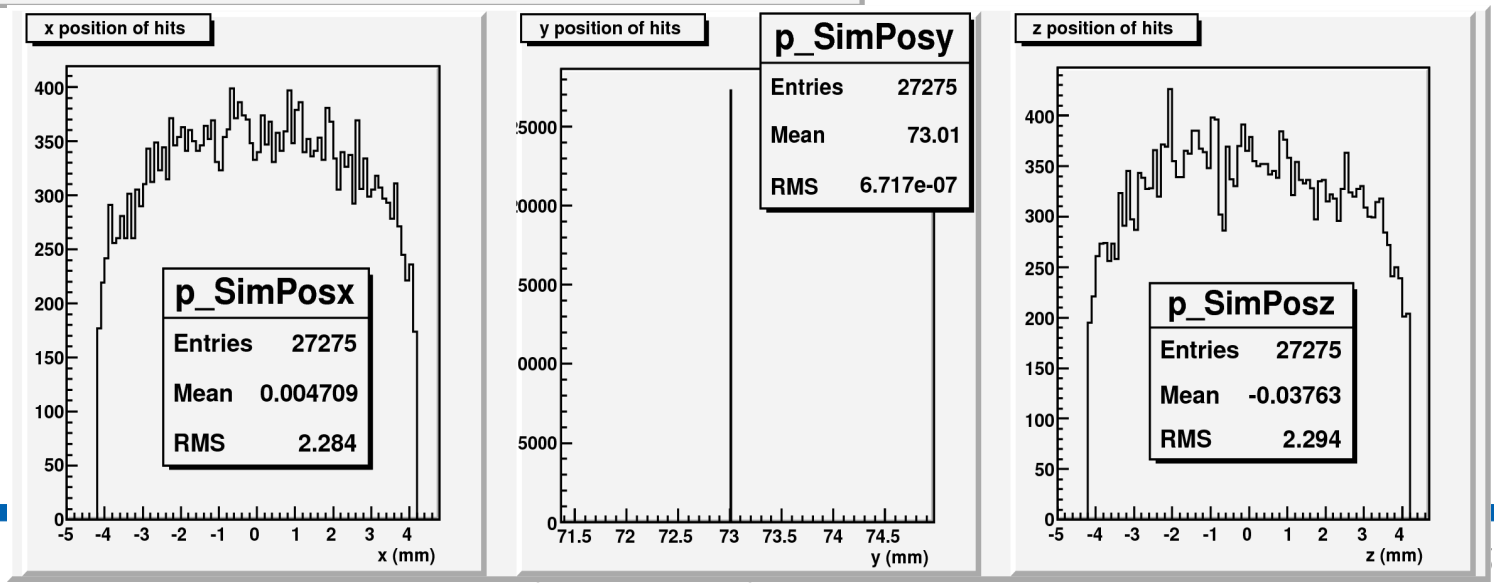
1000 events superimposed



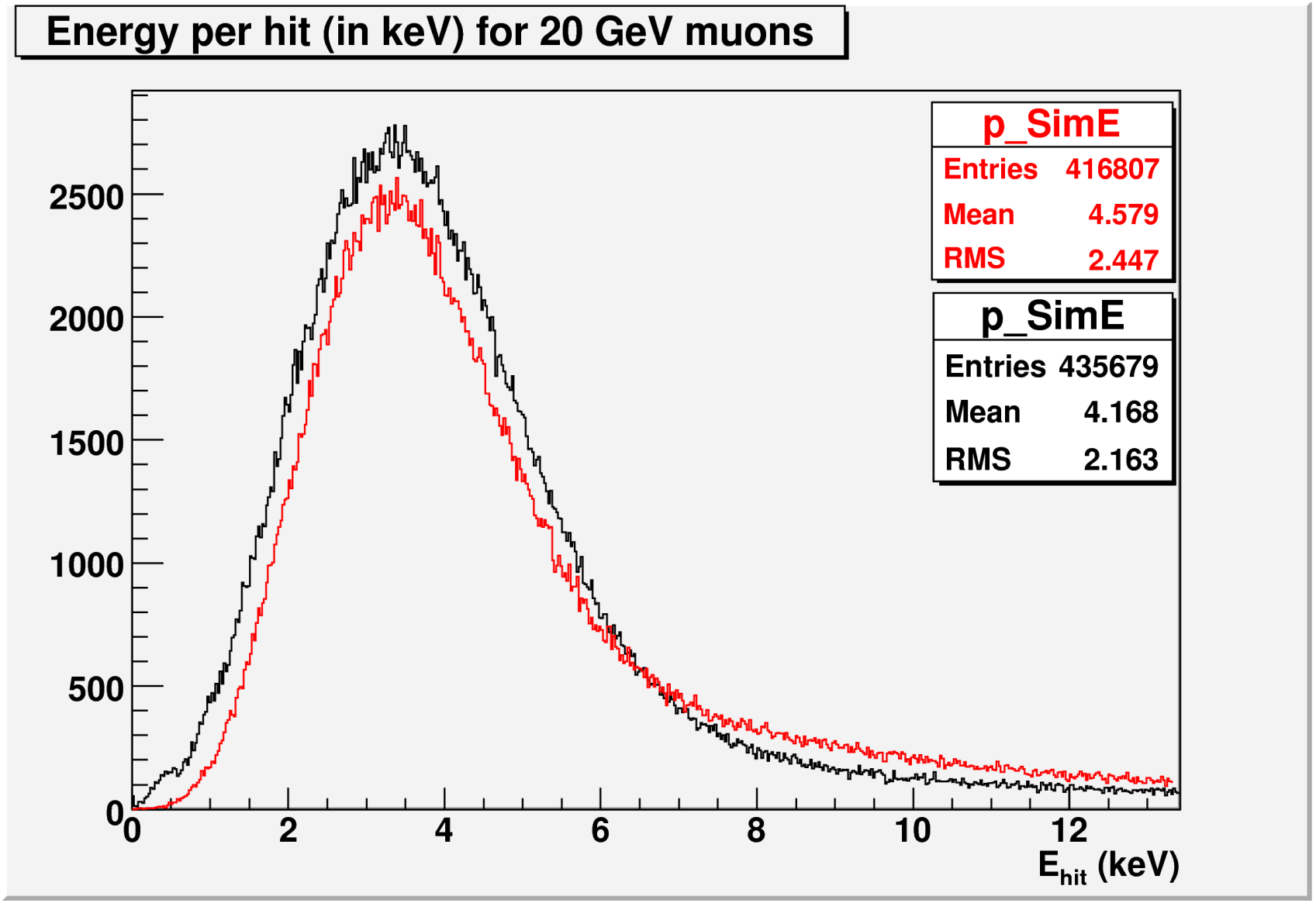


LCIO collection output

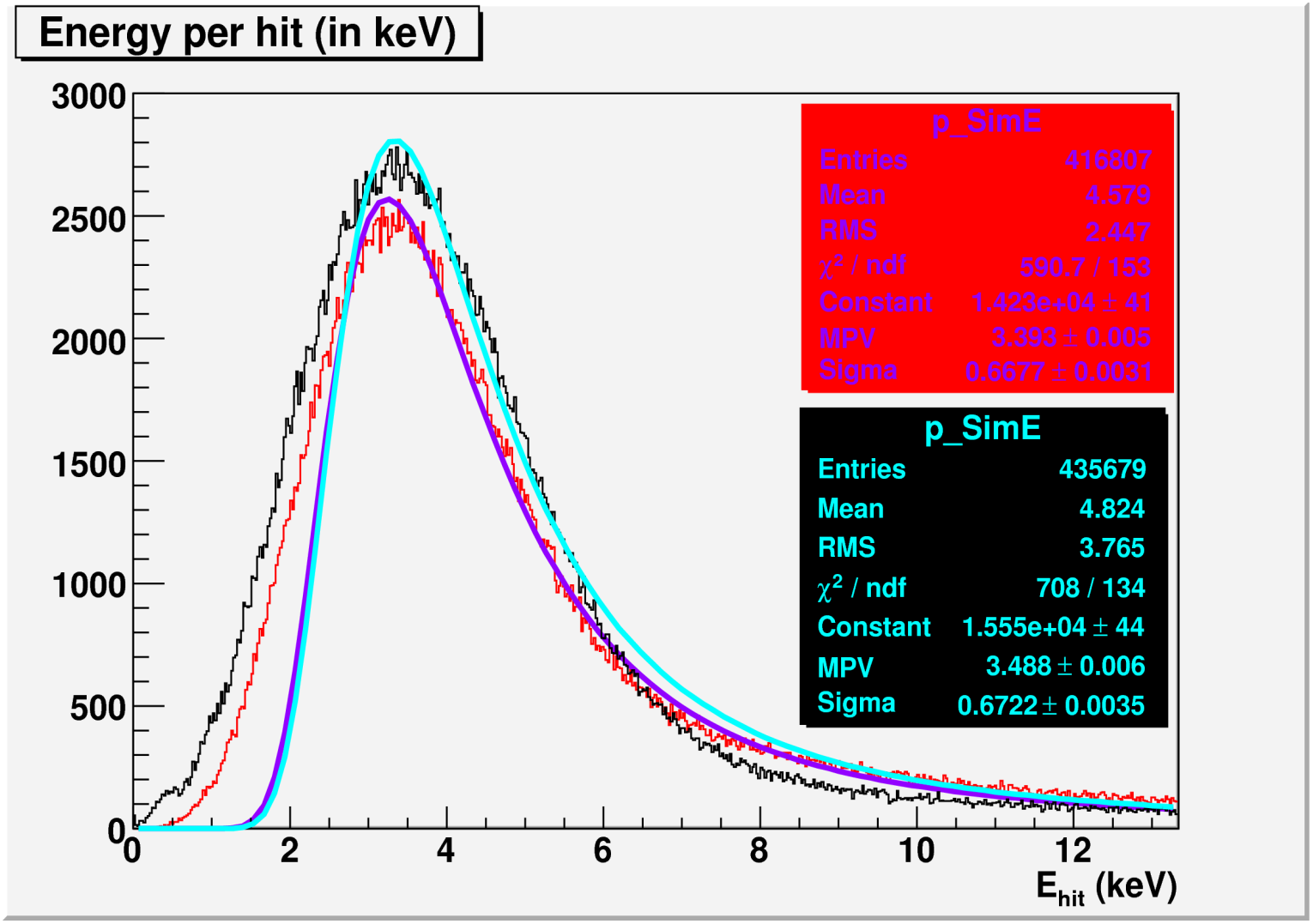




With 20 GeV muons to check



With 20 GeV muons to check



Not Landau

?!??

Conclusion

- Now that I understand better how an application works, will go back to Mokka !
- Can use most of the existing classes and structure :
  - Need to write a Geometry file independant of the database, inheriting from the Mokka subdetector base class,
  - That implies a new main program to bypass Mokka CGAGeometryManager...
  - + a new SensitiveDetector driver, again inheriting from the Mokka SensitiveDetectors base class,
  - + a new Encoder class, with just I and J (and K for the TB) useful..
  - + a modified PrimaryGeneratorAction to generate a random spectrum in energy and momentum for the incoming particle....