Hands-on exercises

Unit 2

Modelling the experimental set-up

What you learned in unit 2 lectures

 How to describe an experimental environment with Geant4

- Your experimental set-up
 - Materials
 - Elements, simple, compound
 - Detector geometry
 - Solid, logical volume, physical volume
- Your radiation environment
 - Primary particle generation
 - Simple particle gun, General Particle Source etc.

Today's exercises

- You start from a simple user application we provide
- You get familiar with it through a guided tour we provide
- You learn how to build and run it as is
- You play with predefined commands
- You modify some features
- You add new functionality
- We propose the exercises
- You get some time to solve them by yourself
- We show you the solution

Topics for the exercise

Materials

- Define a new material
- Define a compound

Geometry

- Modify the existing detector
- Add a new component to your setup

Primary generator

Modify the characteristics of your primary beam



