Session 4: Exercise

Code for download: session4 start.tar.gz

Exercise 4a:

- Explore processes defined for proton, e-, e+, gamma particles via UI commands and add these commands in
 - Hint: See the commands /particle/select and /particle/process/*
- Add a command line option to select any Geant4 physics list using G4PhysListFactory class when starting the example application, for example:
 - ./exampleED -p FTFP_BERT_EMV
 - The command line options were already added in the main() function. See the documentation for the basic example <u>B4</u>, where use of a similar code is described in the section « How to run ».
 - Check availability of the physics list via
 G4bool IsReferencePhysList(const G4String& physListName);

Exercise 4b:

- Set particles production thresholds (cuts) via Geant4 command in run.mac.
 - *Use Help in Qt session to find out needed commands.*
 - See setCut* commands in /run directory.
- Define a region in EM calorimeter with production thresholds different from the default ones.

Solution: session4_solution.tar.gz

FE-Geant4