

Version 11.0

Exercises for Particles and Physics

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- By default, tables of parameters for the EM and hadronic physics are printed in log file before start of simulation of the 1st event
 - Use example \$G4INSTALL/examples/extended/hadronic
 - Study README
 - Select physics list (default FTFP_BERT)
 - Run the default macro hadr01.in
 - Study log output
- Run the application in interactive mode
 - Study physics related UI commands
- Check the physics processes attached and their ordering:
 - /particle/select e-
 - /particle/processes/dump

- Check what particles exist:
 - /particle/list
- Check a particle property:
 - /particle/select e-
 - /particle/property/dump
- Please type "help" to get the full set of commands for particle category



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- Copy, compile, and build the example into working area
 - cd mydir
 - cp -r \$G4INSTALL/examples/extended/hadronic/Hadr01 ./
 - cd Hadr01
 - mkdir build
 - cd build
 - cmake -DGeant4_DIR=\${G4COMP} ../
 - make
- Run in the batch mode
 - ./Hadr01 Hadr01.in FTFP_BERT >& ftfp_bert.log
 - ./Hadr01 Hadr01.in FTFP_BERT_HP >& ftfp_bert_hp.log
 - compare log files
- Study Hadr01.cc how G4PhysListFactory is used
- Run in interactive mode
 - setenv PHYSLIST FTFP_BERT (t- or c- shell)
 - export PHYSLIST=FTFP_BERT (bash shell)
 - ./Hadr01
 - >control/execute vis.mac



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