Simulation Project: Part 1

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Goals

- Run simulation in batch mode to produce 2000 moller events with realistic materials
- Modify input macro file to change some realistic materials into Kryptonite
- Run simulation in batch mode to produce 2000 moller events with some materials converted to Kryptonite

Moller events with Realistic Materials

Run remoll in batch mode:

./build/remoll macros/HandsOn_run_moller.mac

This will create the root file remollout_Moller_gen_2k.root

Moller events with Kryptonite Materials

Open macros/HandsOn run moller.mac in a text editor

Make interactions with W, Cu, and Pb
realistic rather than pure absorbers
#/control/execute macros/HandsOn_kryptonite.mac



/control/execute macros/HandsOn kryptonite.mac

Change the output root file name to

remollout_Moller_gen_Krypto_2k.root

Run remoll in batch mode:

./build/remoll macros/HandsOn run moller.mac

This will create the root file remollout_Moller_gen_Krypto_2k.root

Remarks

Now as the part 2 of this project we will create a root script to analyze and produce outputs for the two root files we generated