

MOLLER Simulations

Vassu Doomra



- You would need to obtain a JLab computing account.
- I personally find working with the VMWare Horizon Client pretty easy provided by the IT Division at JLab. You can find all the information here:
<https://cc.jlab.org/vdi>
- Within the virtual machine open a terminal and use the command *ssh ifarm* to enter one of the nodes. You will be prompted to enter the password.
- In your work area, you can download the remoll package (available publicly on GitHub) using “*git clone https://github.com/JeffersonLab/remoll*” and switch to any desired branch.
- To see the list of all available branches you can use “*git branch -a*”.
- Then follow the steps: `cd remoll, mkdir build, cd build, cmake ../` and finally `make`.
- This is create an executable “remoll” within the build directory.



Scene tree, Help, History

Scene tree Help History

Search :

Command

- ▶ control
- ▶ units
- ▶ particle
- ▶ geometry
- ▶ tracking
- ▶ event
- ▶ cuts
- ▶ run
- ▶ random
- ▶ process
- ▶ persistency
- ▶ remoll
- ▶ heptst
- ▶ material
- ▶ physics_lists
- ▶ gun
- ▶ generator
- ▶ vis
- ▶ gui

Useful tips X

Geant4: remoll

<http://cern.ch/geant4/>

Tooltips :

- **Start a new viewer :**
'*vis/open/...*'
For example '*vis/open OGL*'
- **Execute a macro file :**
'*control/execute my_macro_file*'

Documentation :

- **Visualisation publication :**
[The Geant4 Visualization System - A Multi-Driver Graphics System](#)
[Allison, J. et al., International Journal of Modeling, Simulation, and Scientific Computing, Vol. 4, Suppl. 1 \(2013\) 1340001:](#)
<http://www.worldscientific.com/doi/abs/10.1142/S1793962313400011>

Getting Help :

- If problems arise, try [browsing the user forum](#) to see whether or not your problem has already been encountered. If it hasn't, you can post it and Geant4 developers will do their best to find a solution. This is also a good place to discuss Geant4 topics in general. <https://cern.ch/geant4-forum>
- Get a look at [Geant4 User support pages](#): <http://cern.ch/geant4/support>

Output

`/control/execute macros/runexample_vis.mac`

Session :

There are 4 particle generators in the remoll package:

- Beam Generator
- Moller Generator
- Ep elastic generator
- Ep inelastic generator

There is another generator called the “external” generator.