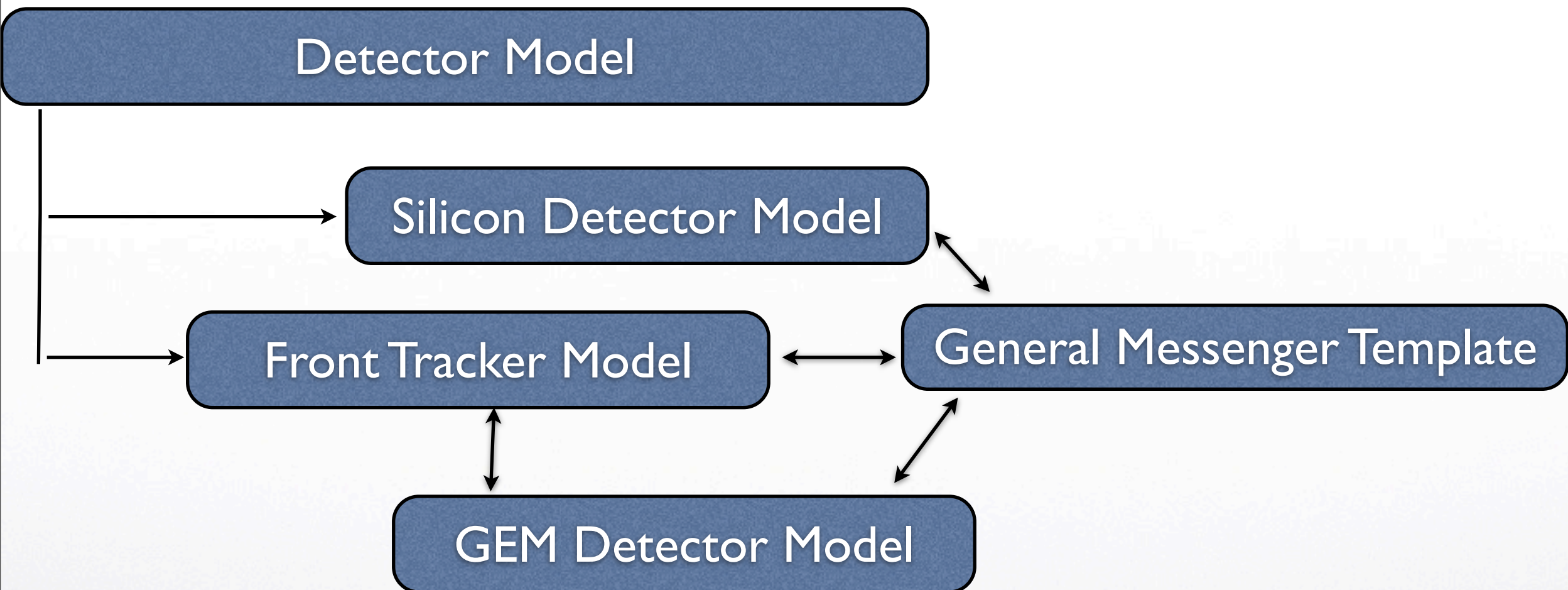




GEANT4 Simulation of GEM Tracker



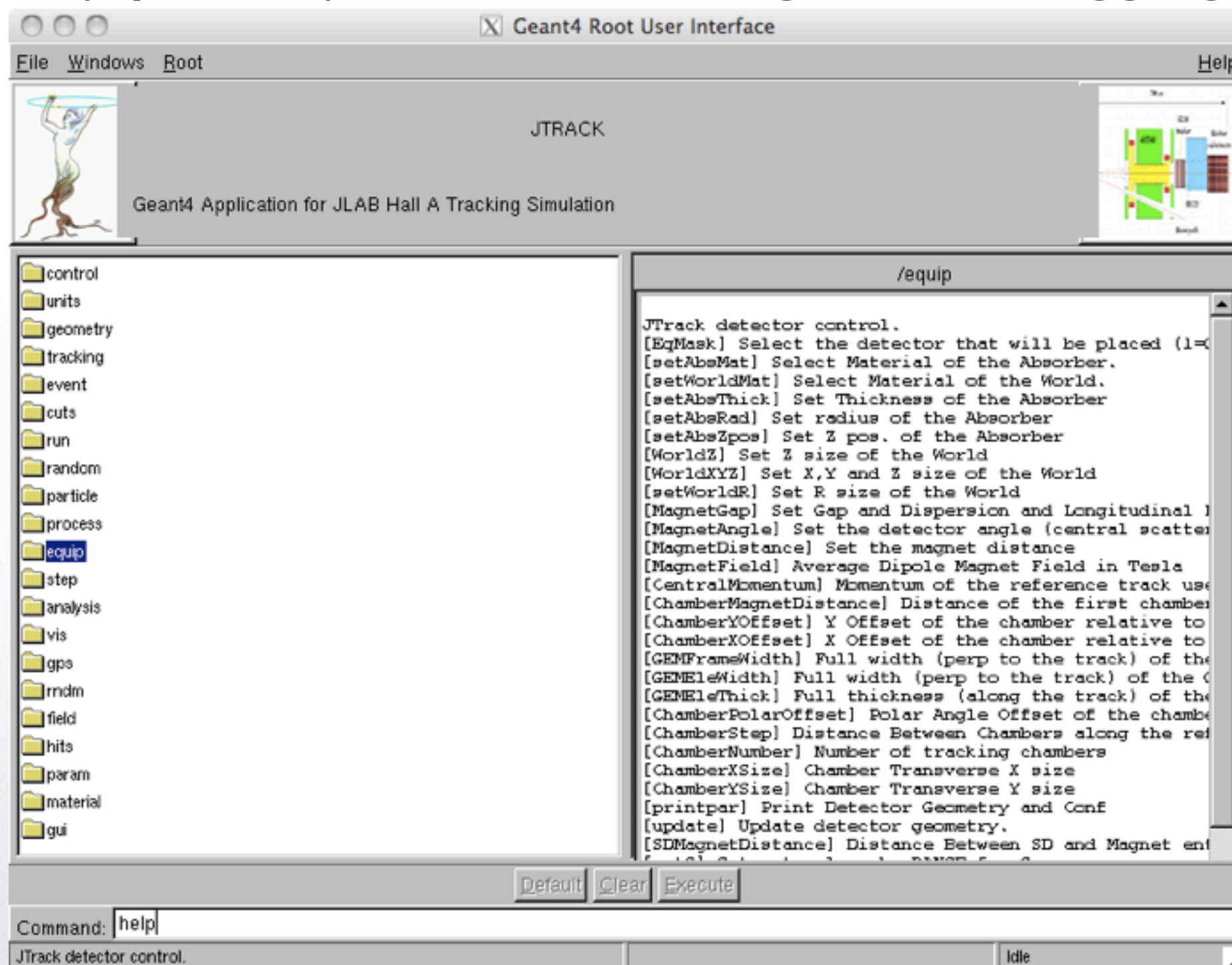
Simulation Outline

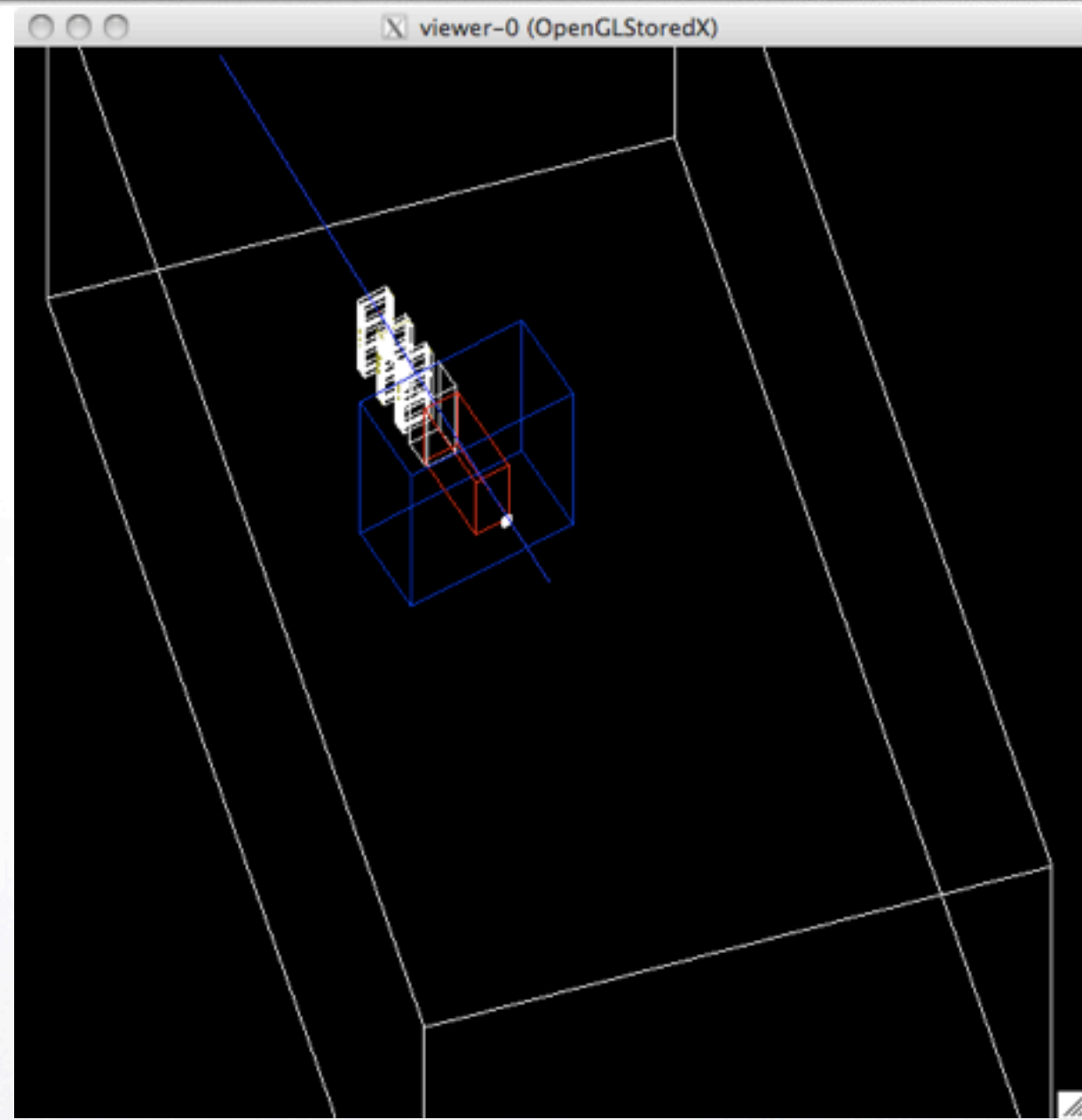
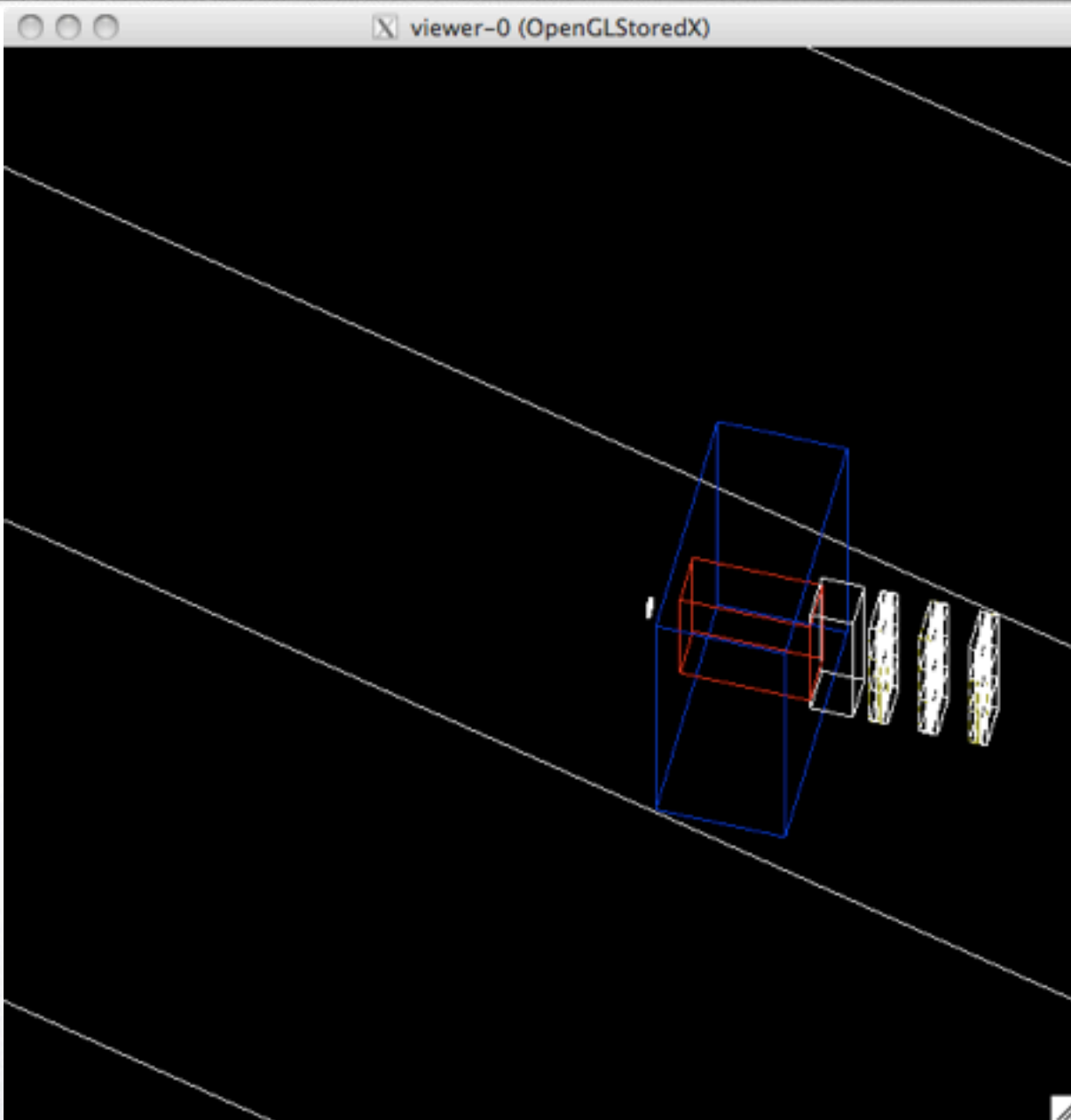


The single detector modules are “separated” from the “global” detector model in order to achieve code modularization. Any detector can be manipulated by its own commands, arranged in a logic tree.

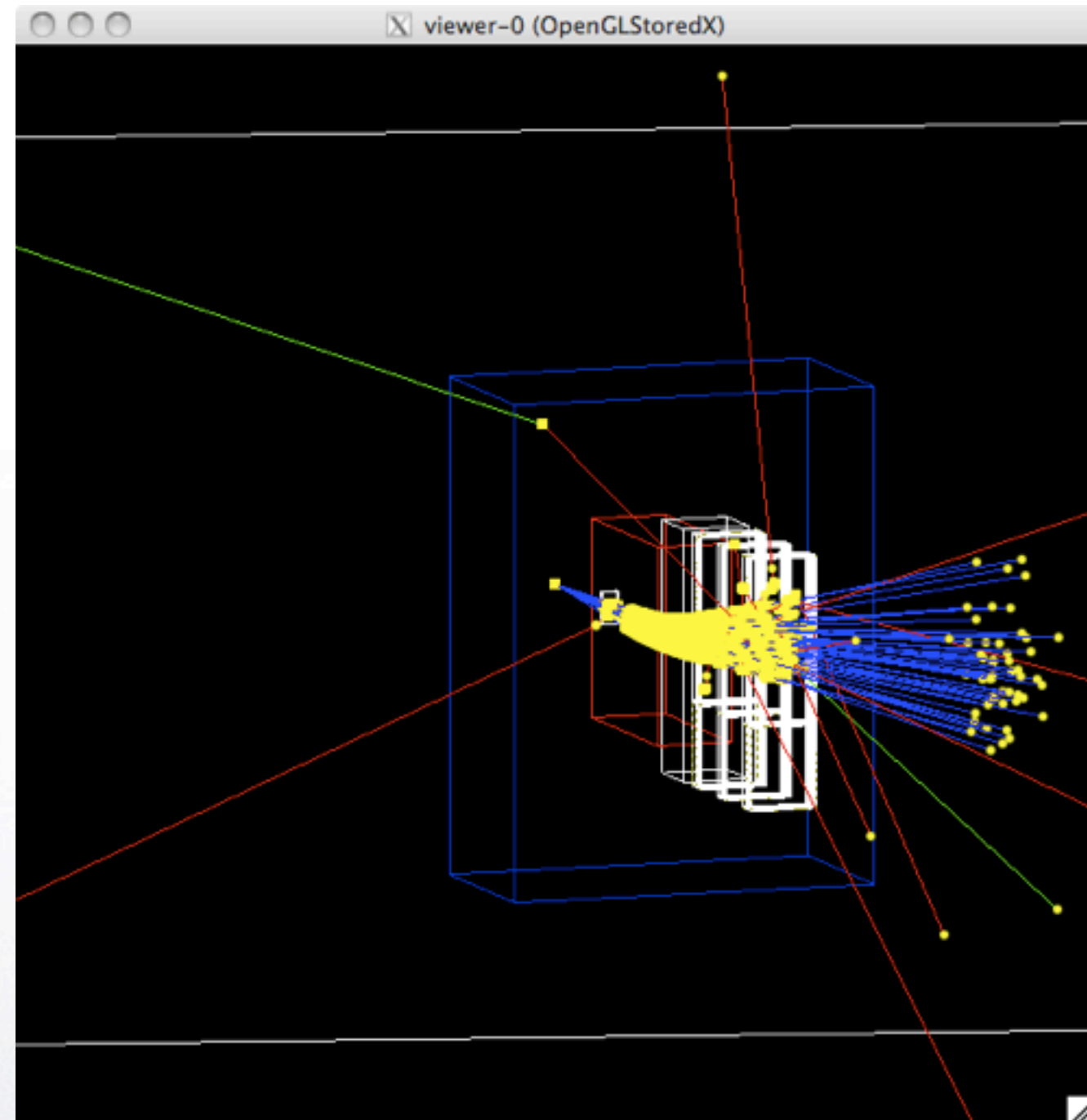
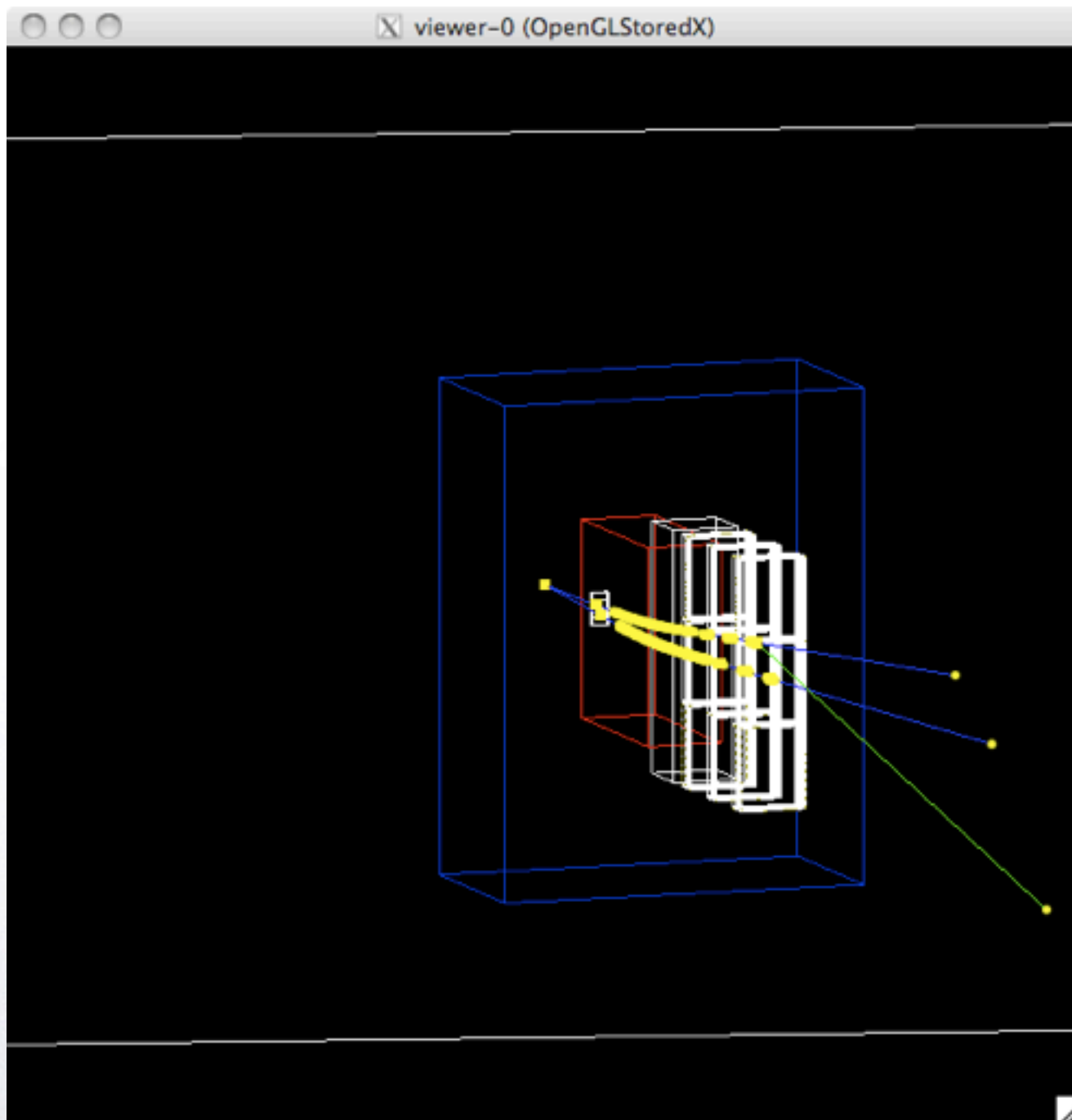


Simple (optional) GUI and configuration logging added.

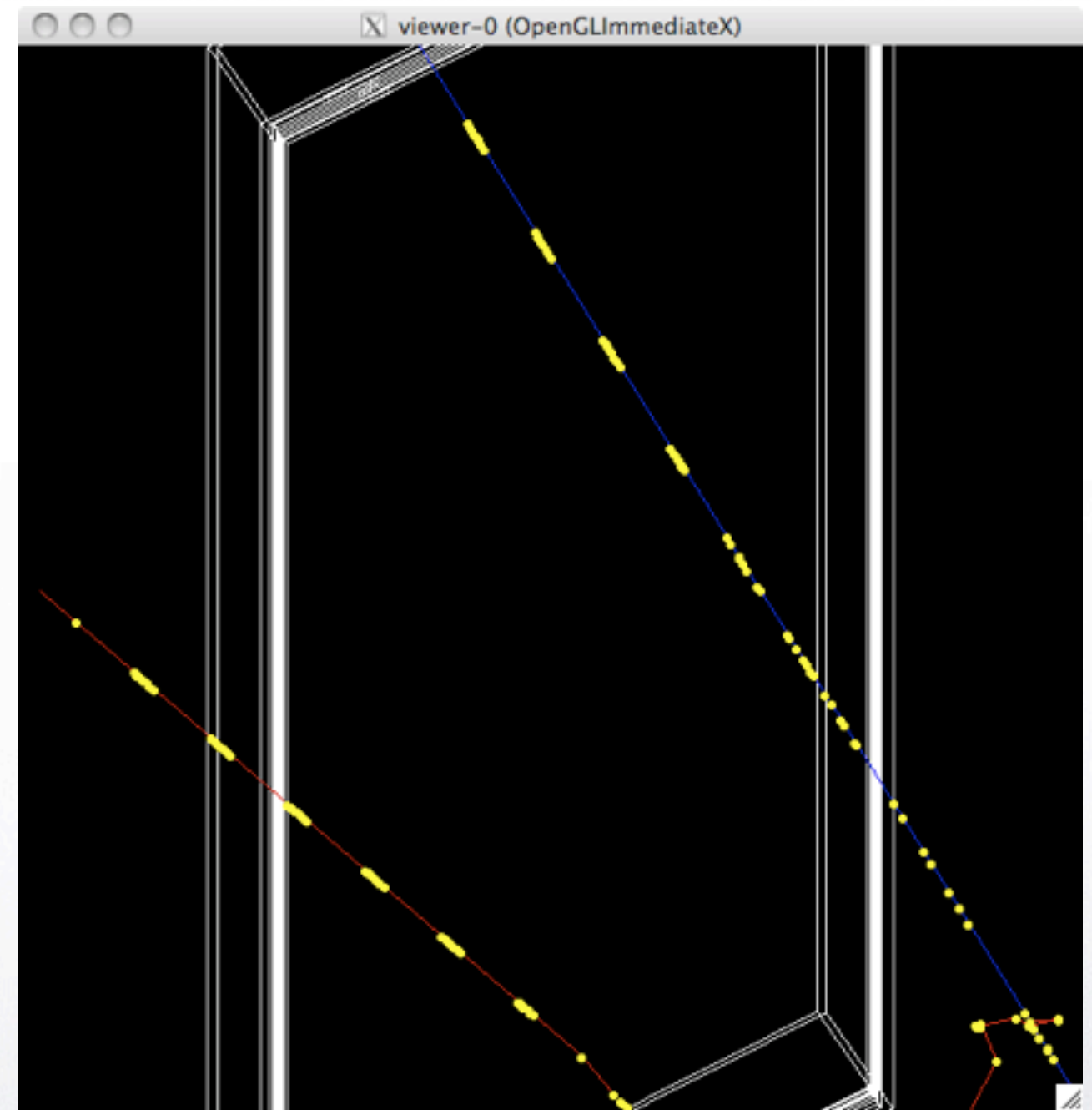
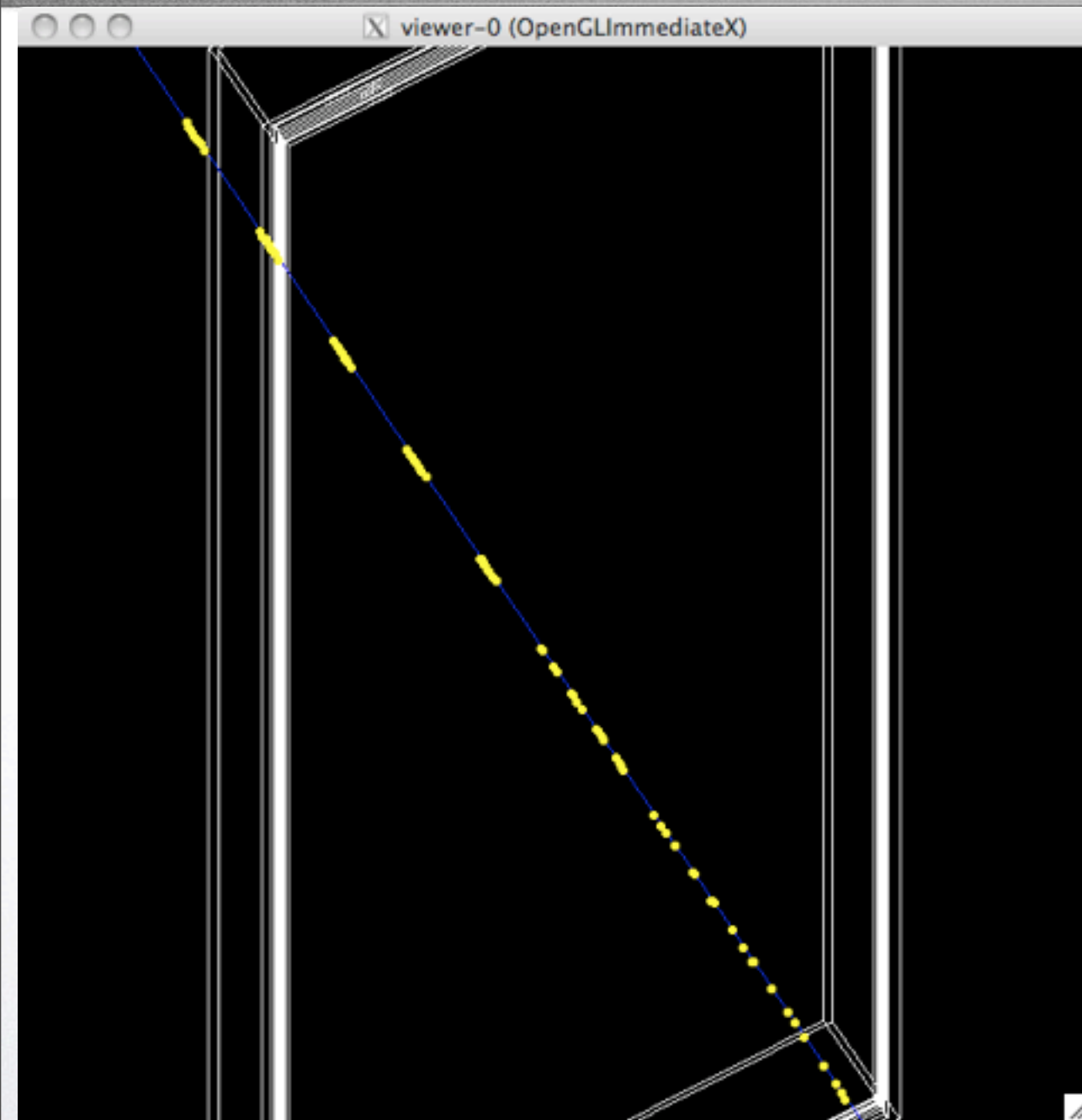




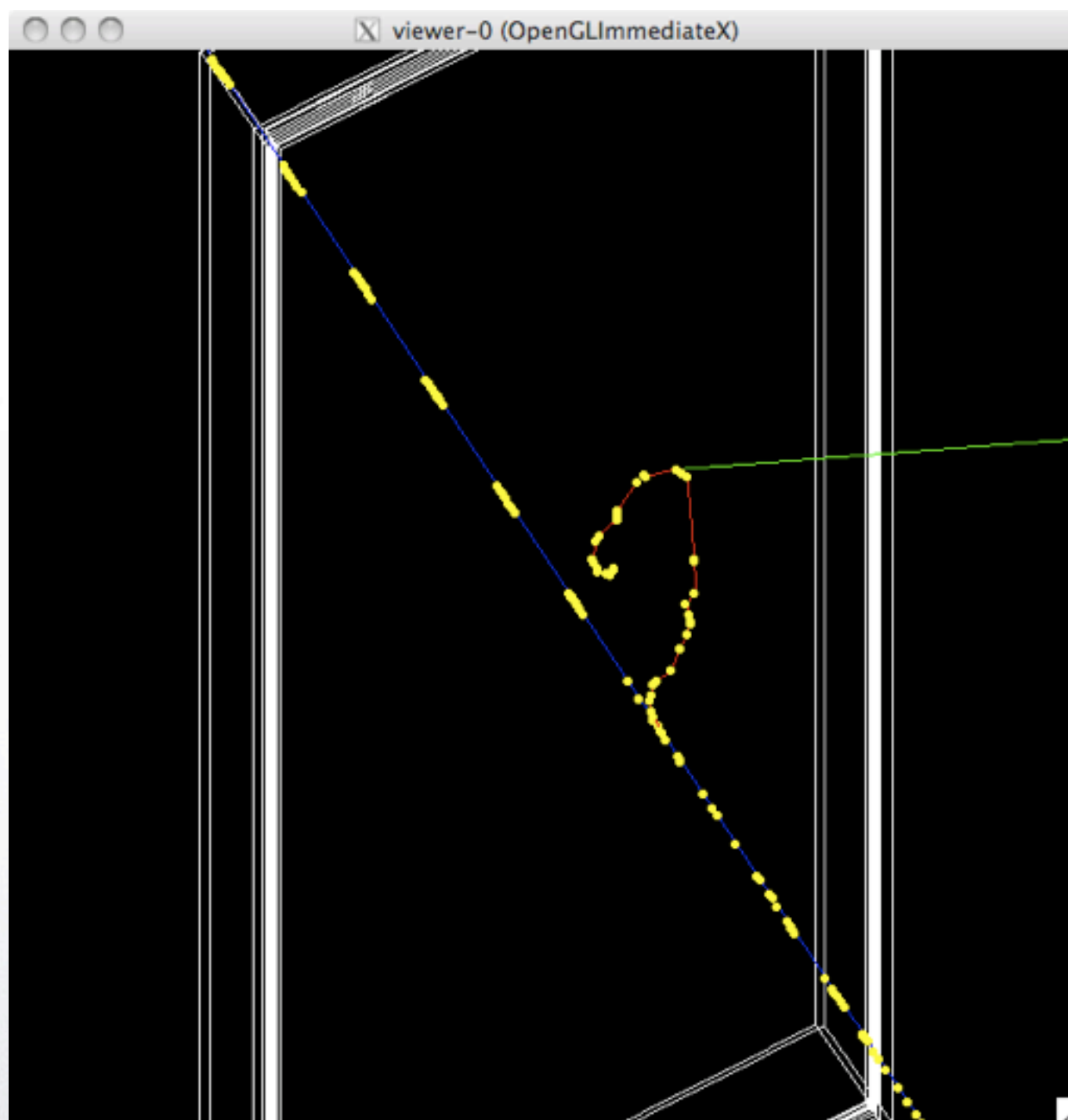
Example of geometry

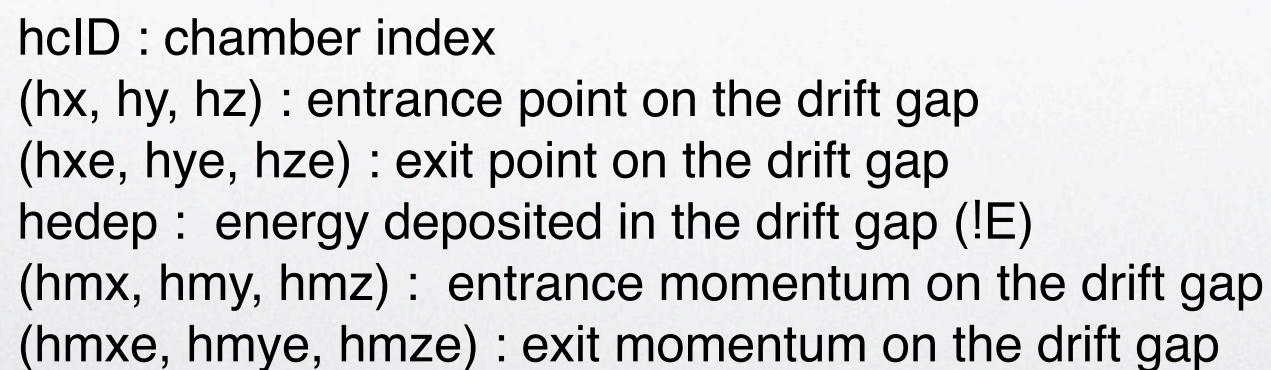


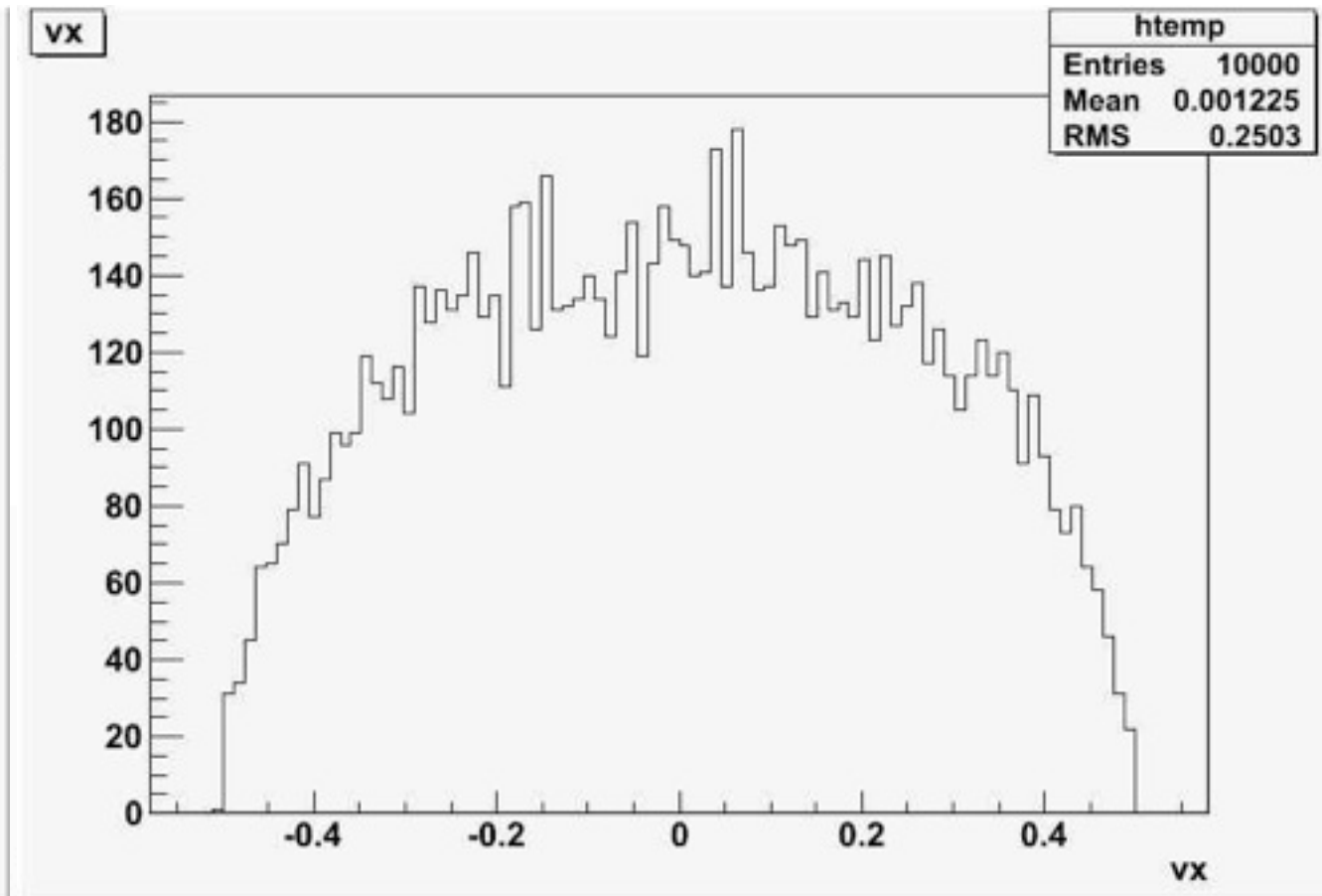
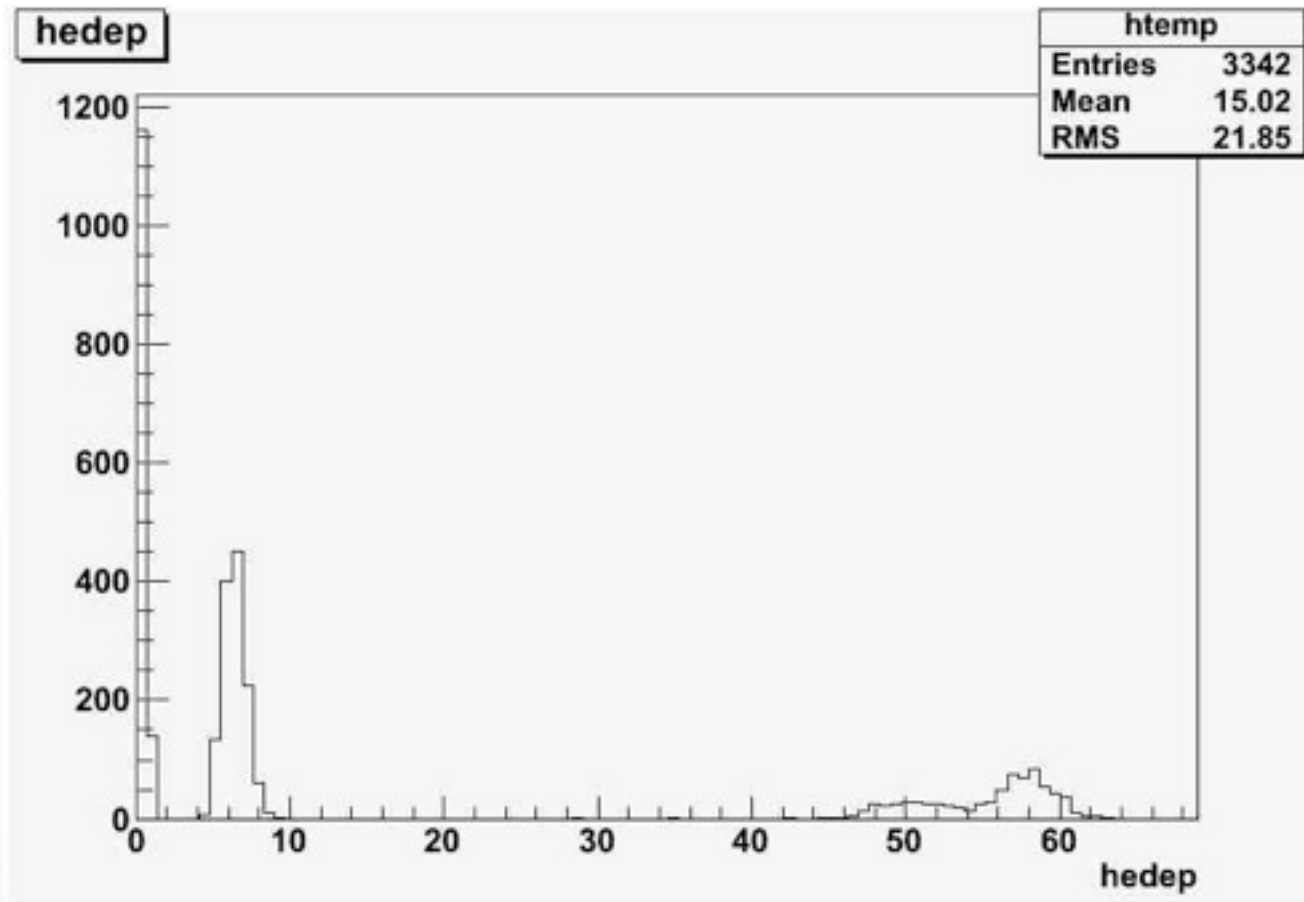
Example of running simulation



Zoom on a chamber during a simulation



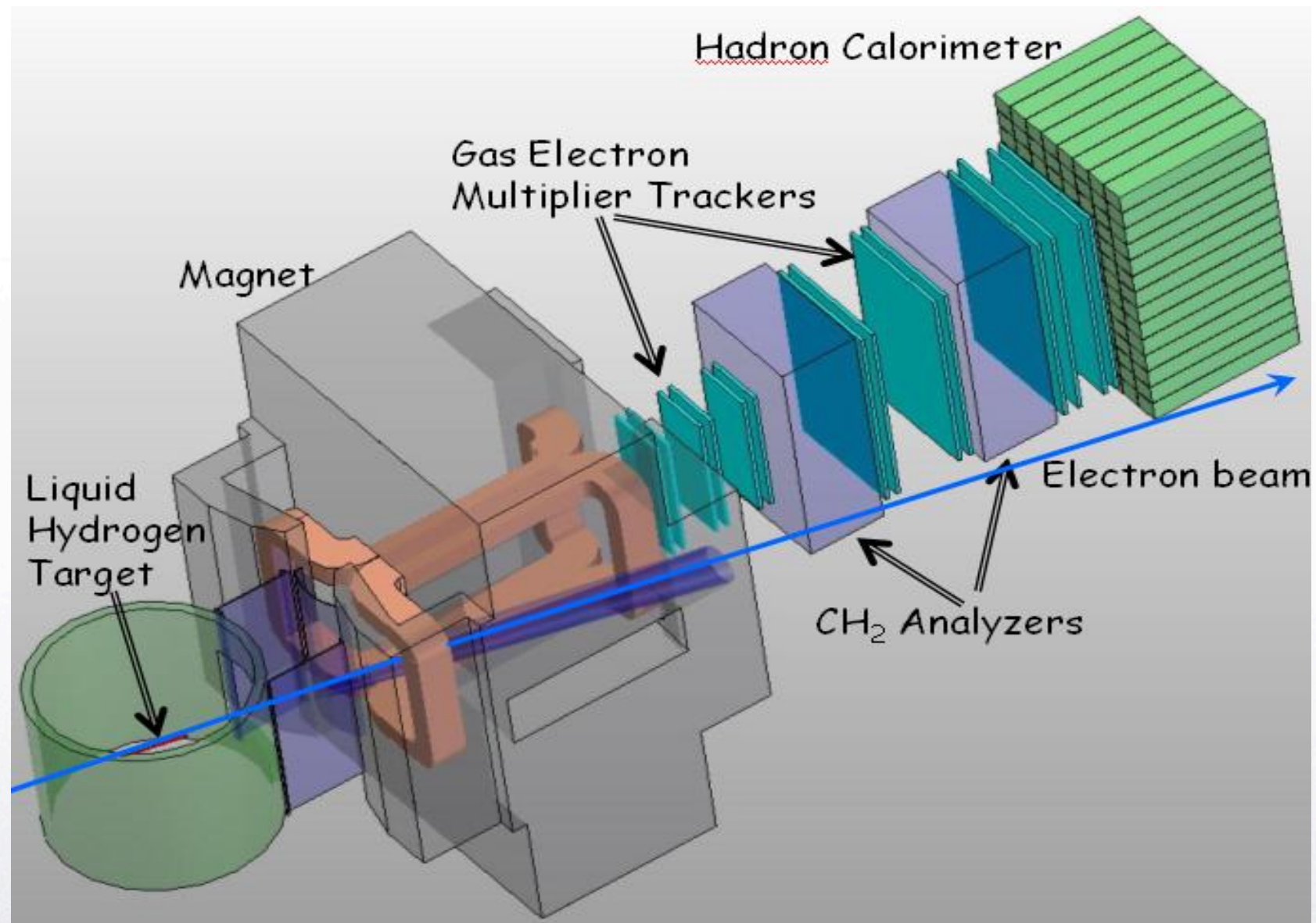




(Simulations, proton source)



The plan is to model the whole tracker.





- “Realistic” and customizable event generator
- Modularization of the remaining detectors (magnet...)
- “Tuning” of the Physic Process List
- Presumably many other things