LAMPS-L Geant4 Simulation

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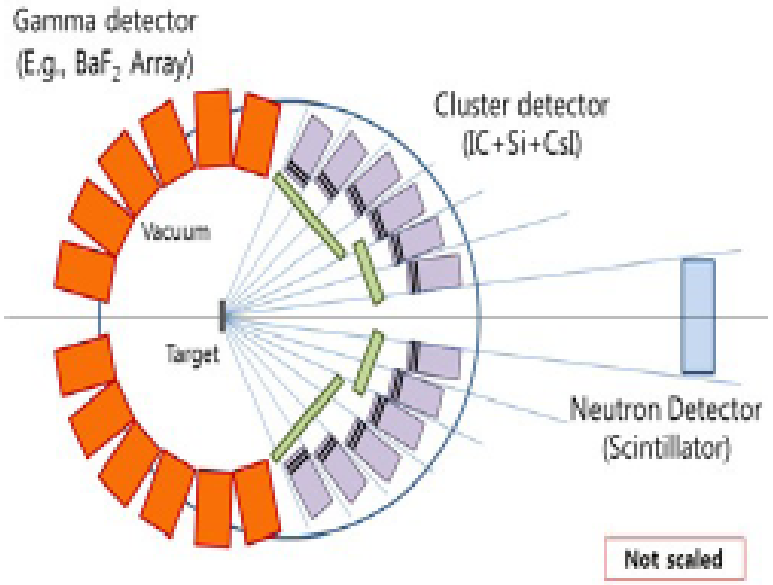
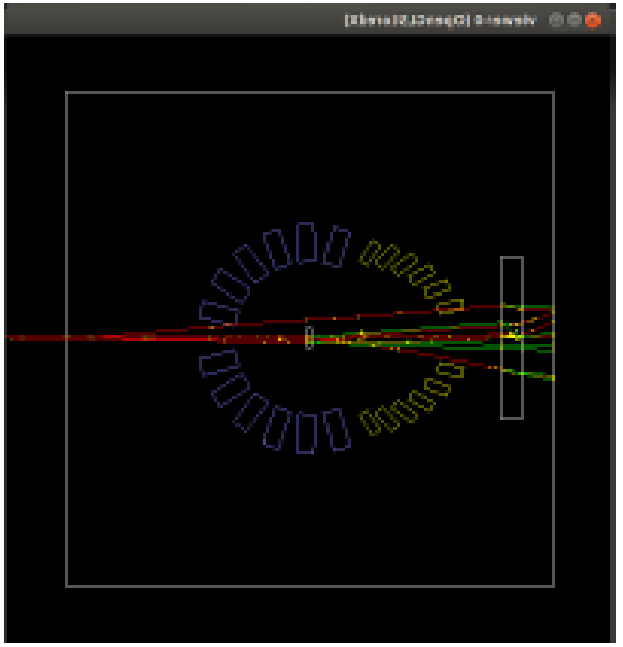
Side View of LAMPS-L In Geant4 Simulation

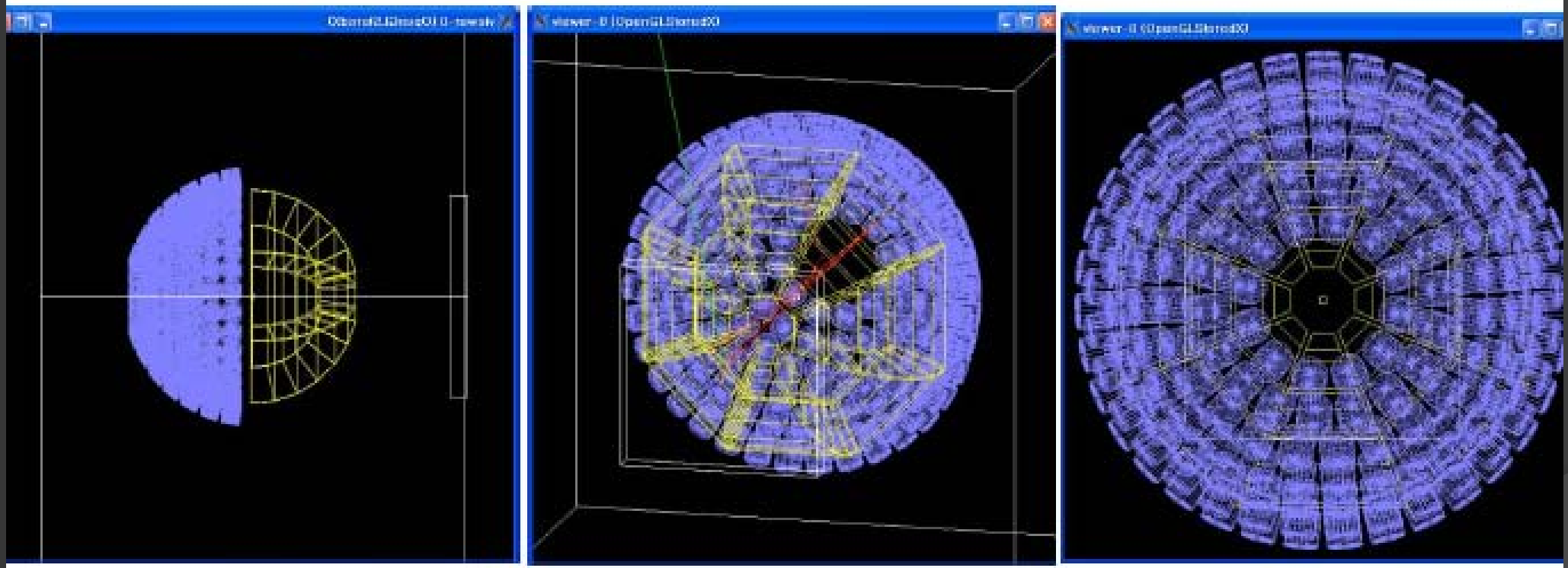




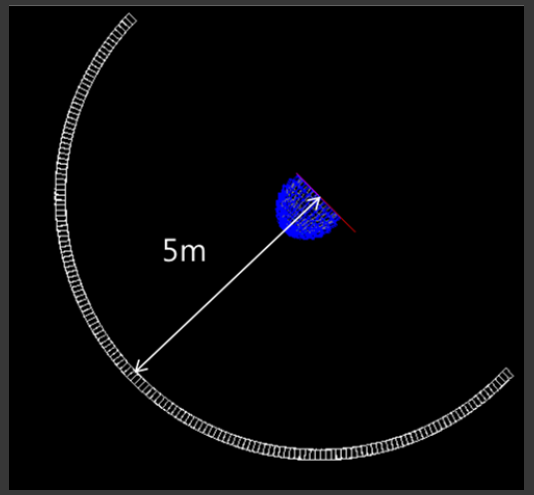
■ 1st version geometry : side view of LAMPS-L

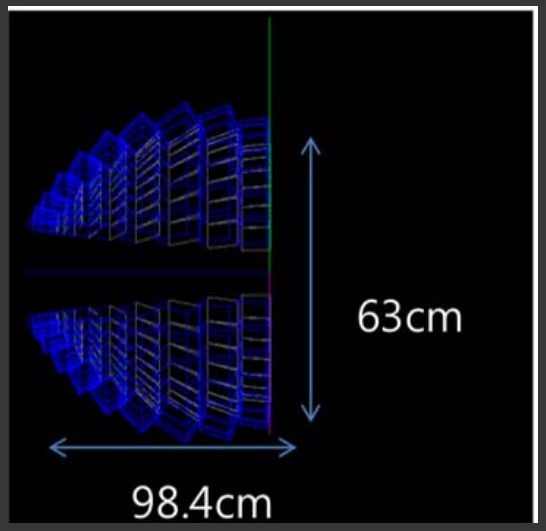
※ Some changes

1. Gamma detector's shape is circular cylinder.
2. Cluster detector's shape is trapezoid
3. There is some gap for frame.

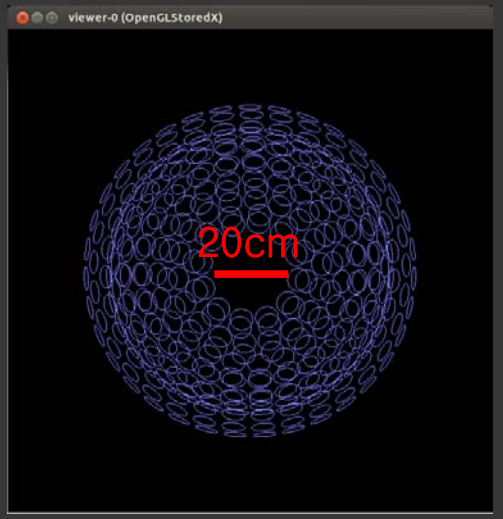


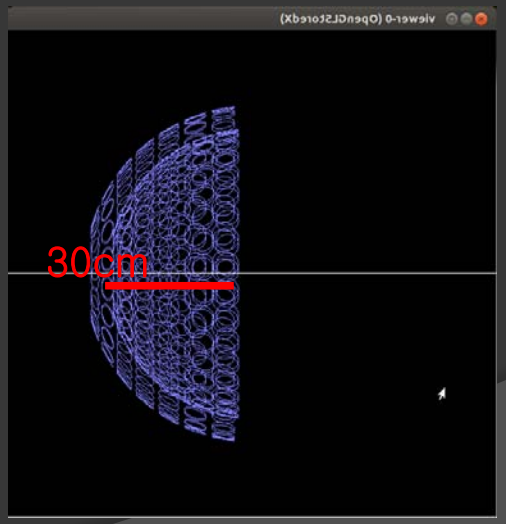
The Geometry of the last meeting





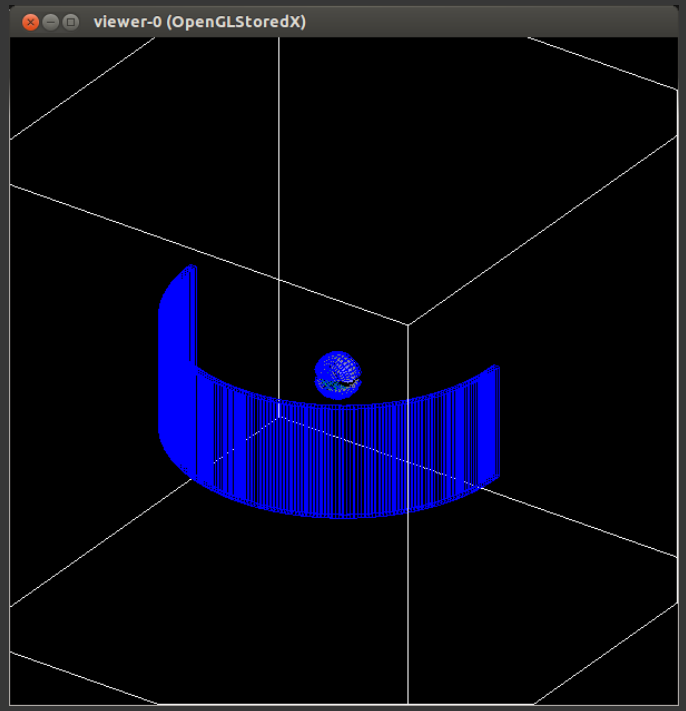
EunAh's Cluster Detector
& Neutron Detector

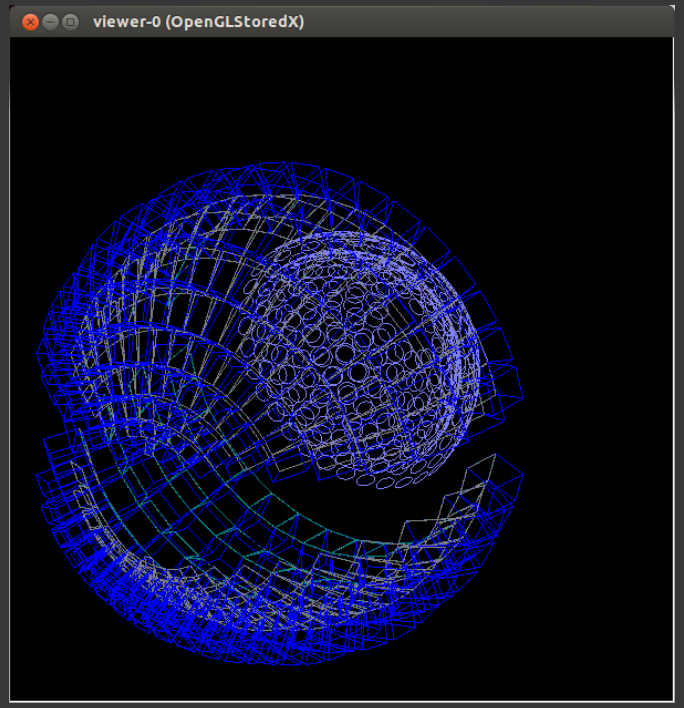


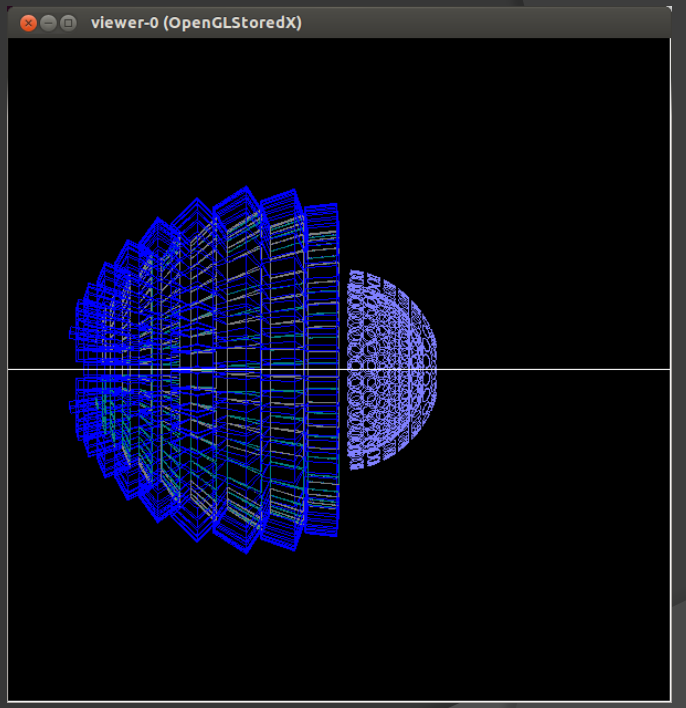


My Gamma Detector

Combination of the two geometry







The next problem

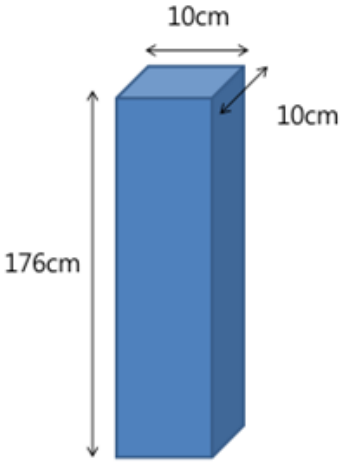
1. There is no source to save hit data.

2. The source codes have to reconstruct.
<EventAction, RunAction and SteppingAction>

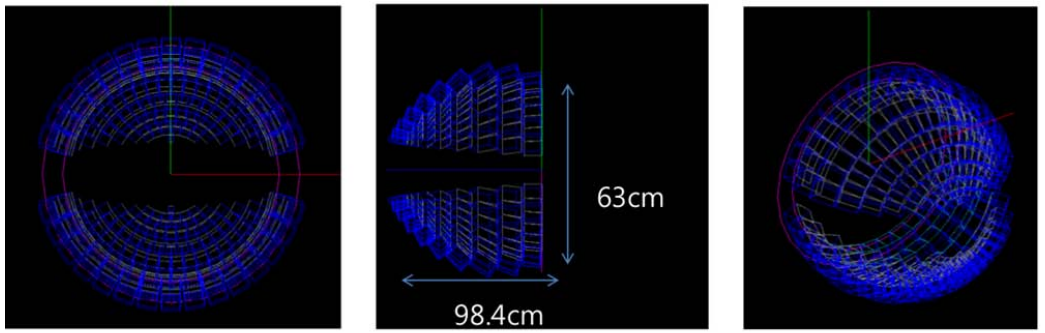
3. Till lately, the source code can save just one of the detector’s material CsI.

Neutron detector

- Scintillator detector (bar shape)
- 180 degree coverage, 5m from target.
- 157 channels



Charged particle detector (SiCsI)



- 10 rings
- N_{ch}(p, d, t, α, pi+, pi-) < 0.2
- 128 channels
- 10cm CsI Thickness
- Si : 2*100μm, 1*400μm