Geant4

2019.10. 9. Sora Oh

Particle

- Muon with 2GeV/c
- Reconstruct particle muon with momentum of 2GeV/c in B1PrimaryGeneratorAction.cc

Scintillator

- 5cm*5cm*1cm
- Elements H and C

Scintillator's elements

- See the case of B3DetectorConstruction.cc
- G4Element* H = nist->FindOrBuildElement("H" , isotopes);
- G4Element* C = nist->FindOrBuildElement("C" , isotopes);

- G4Material* CH = new G4Material("CH2CH(C6H4CH3)", 1.023*g/cm3, 2);
- CH->AddElement(H, 10);
- CH->AddElement(C, 9);

Root 파일 만들기

- Simulate was maded. (Muon with 2GeV/c in to scintillator consist of C and H)
- Simulation results should be drawn in form of root file.
- Files inside B1's "src" and "include" directories should be newly compiled.
- See the case of 'B5'.

B1 and B5(src and include)

- B1RunAction
- B1EventAction

- B5RunAction
- B5EventAction
- B5EmCalorimeterSD
- B5EmCalorimeterHit
- #include

To do list

- Make new code.
- Observe single photon.
- Estimate gain.

Created git hub site.