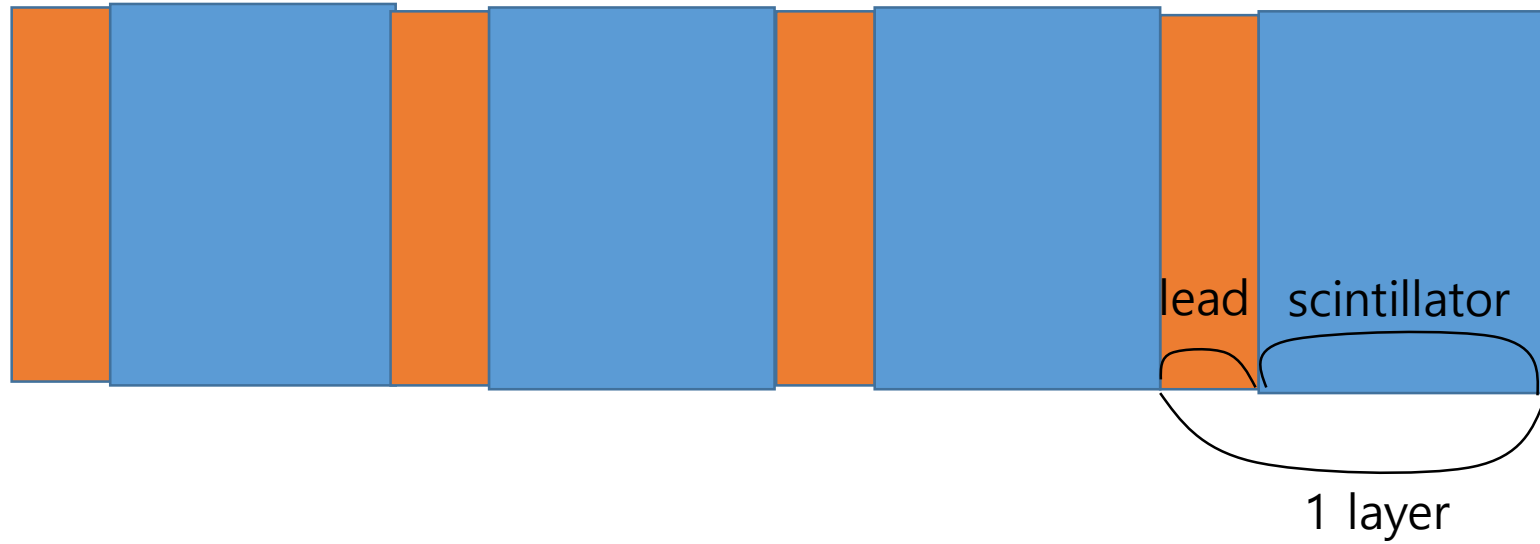


Weekly report

2019.12.26. Sora Oh

Sandwiches

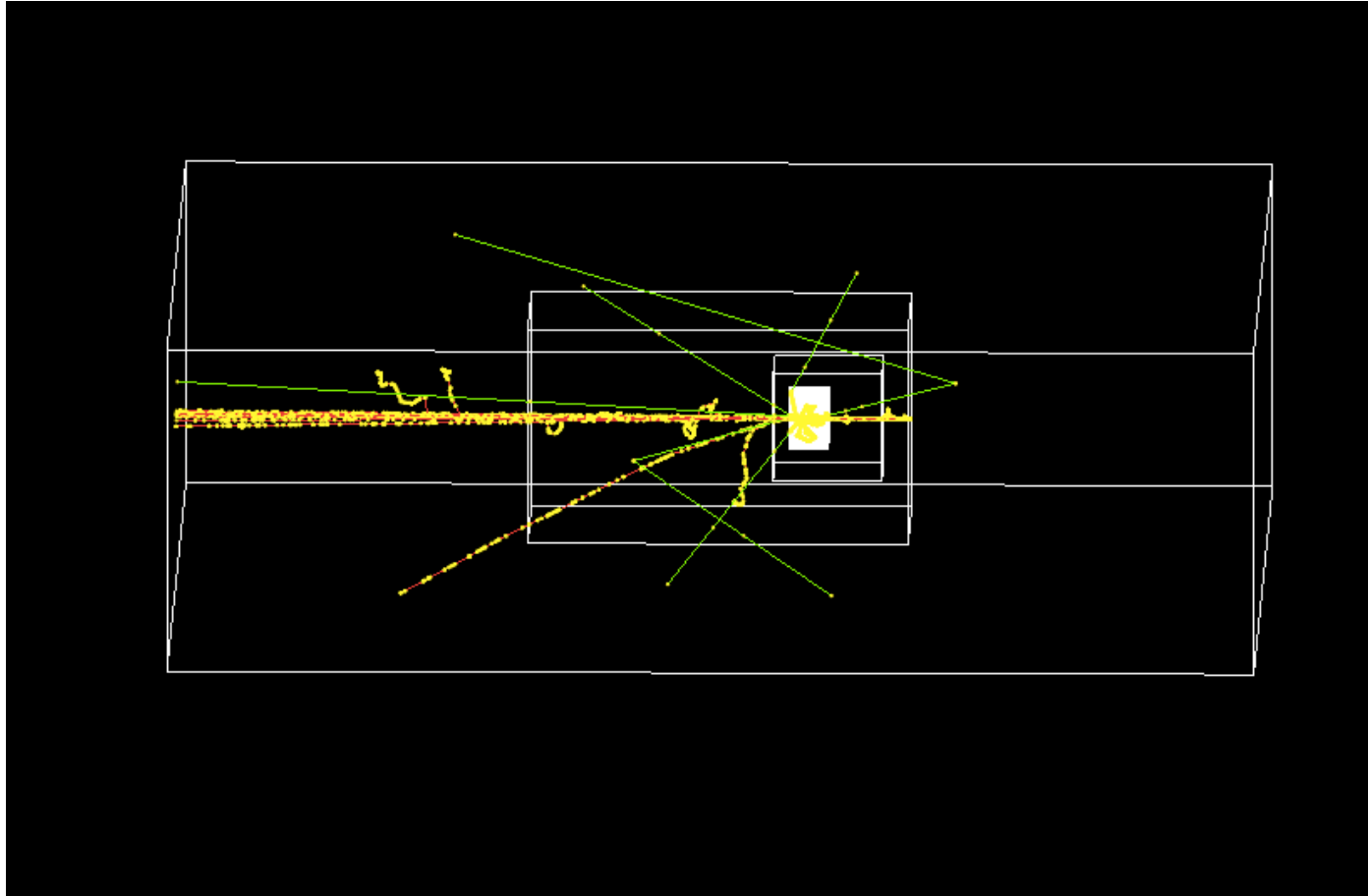


Number of sandwiches

- 20 radiation length of lead(cm) = $0.5612\text{cm} * 20 = 11.224\text{cm}$
- Length of lead in sandwich = 0.1cm
- Number of sandwiches = $11.224 / 0.1 = 112.24 \rightarrow 120$
- 120 lead is required, the sandwich needs 120 layers in total.

- Total length of sandwiches = $0.6\text{cm} * 120 = 72\text{cm}$

Simplified geometry



- Deleted drift chamber
- Deleted first arm
- Sandwiches in hadrocalorimeter in second arm

Things to do

- Make root file
 - modify Emcalorimeter not Hadrocalorimeter because of my geometry code format(sandwich) and hit collection form.
- Adjust aTrack->GetGlobalTime();
- `G4Track* aTrack=aStep->GetTrack();`
 - To track muon's time and position