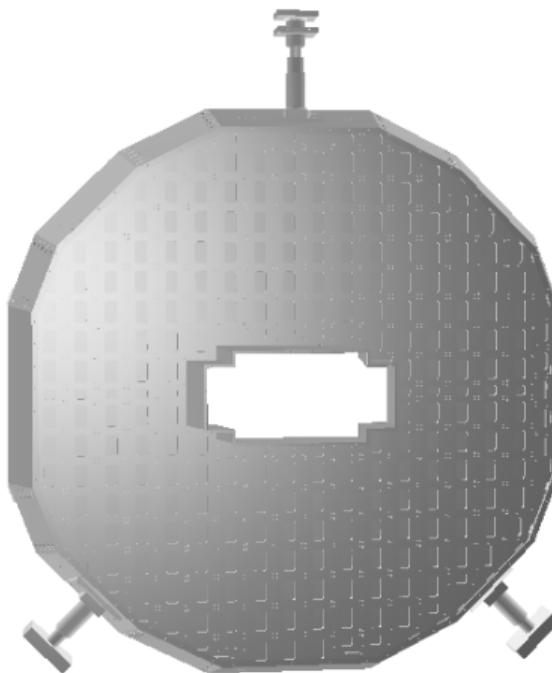
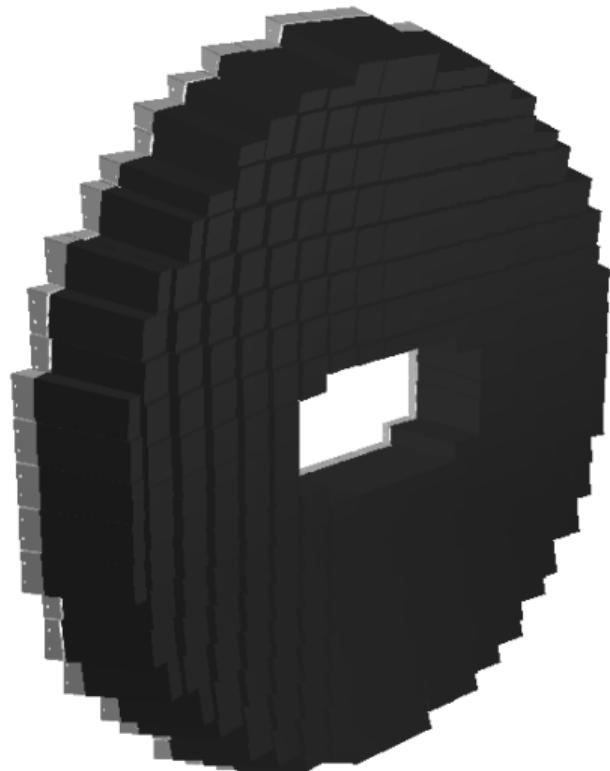


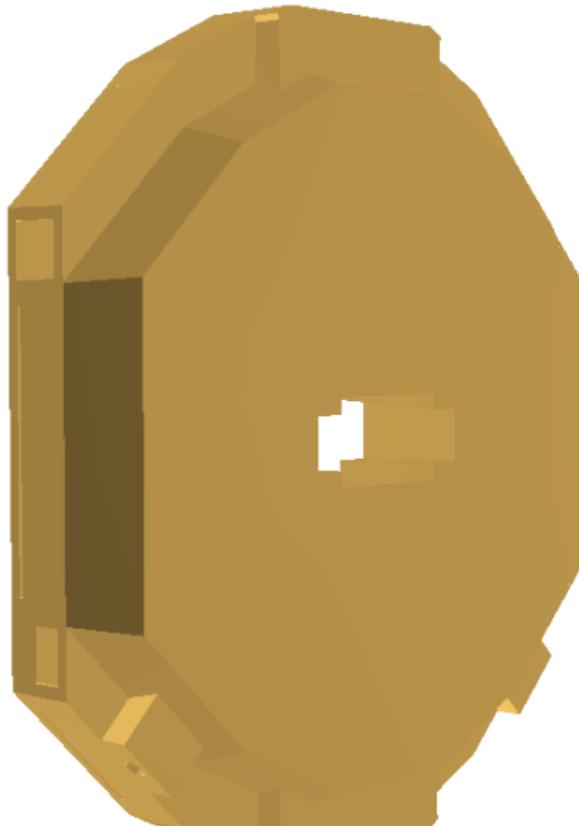
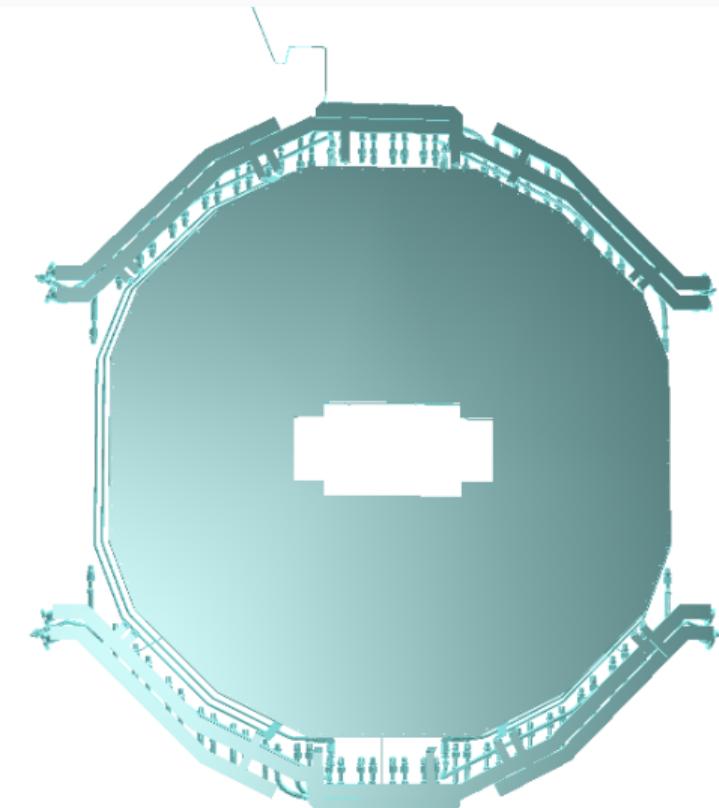
# FwEndcap geometry

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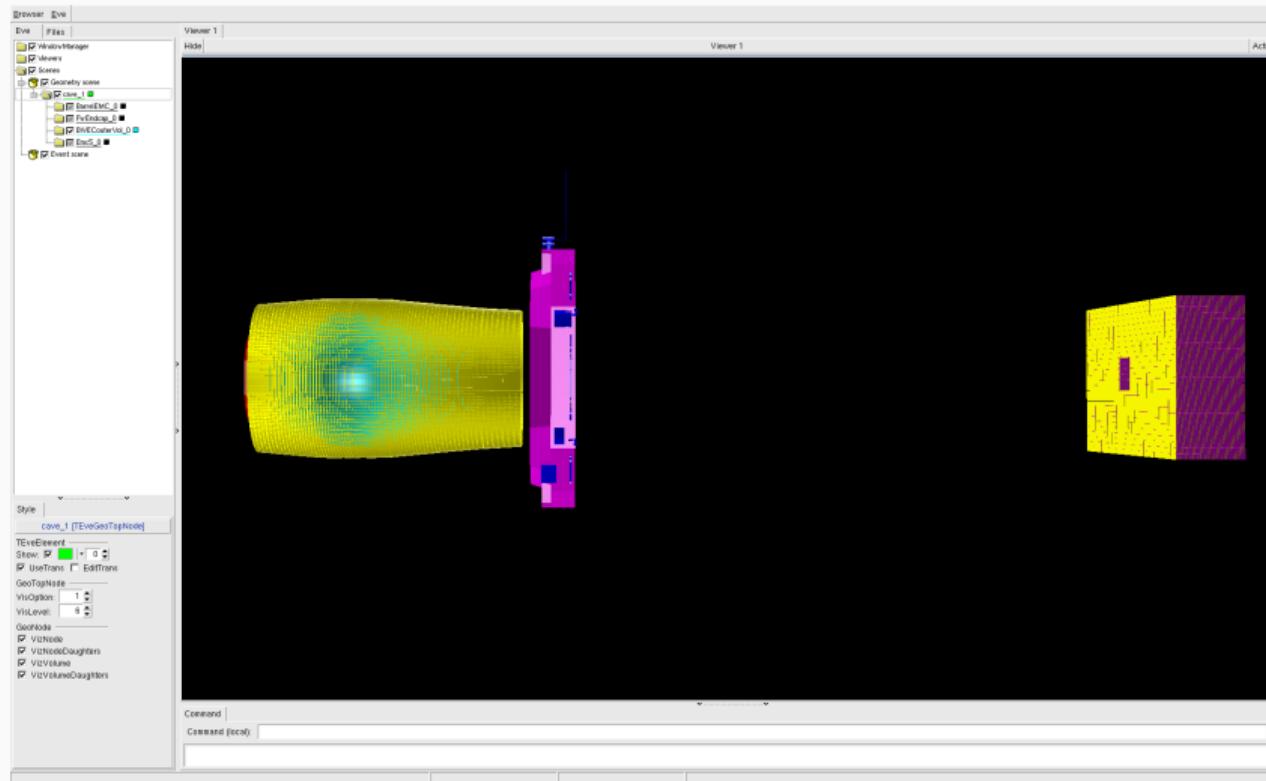


# FwEndcap geometry

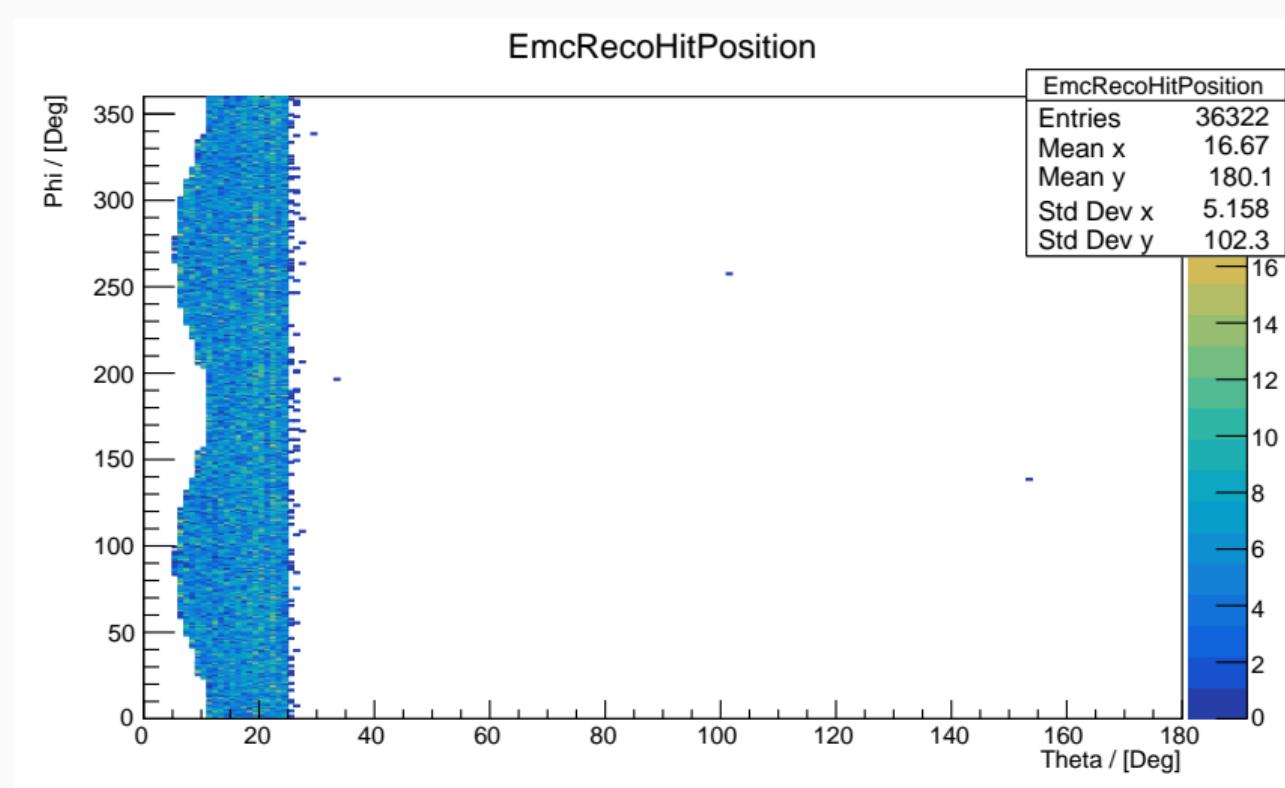
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# Doing first tests with the new FwEndcap geometry (too close to Barrel, but for debugging purposes good enough)

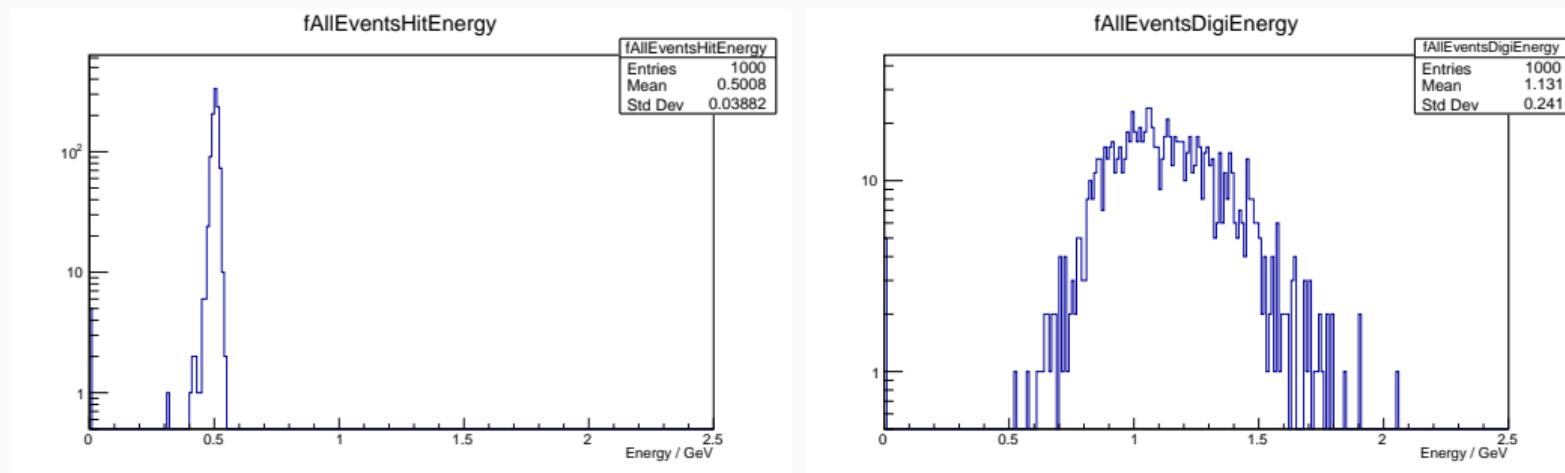


# Simulation: Photons shot between $\theta$ 0° and $\theta$ 25°. Where is the shashlik?



- Shashlik is there, but the I selected the wrong sensitive volume names
- I picked a volume “FscModuleVolume” that grouped sensitive “FscSic” and “FscFiber” and passive “FscLead”
- “FscModuleVolume” consists of air (radiation length of *sim* several hundred meters)
- Picking the right volume makes simulation slower :-(
- Looking at the shashlik, I do not get the simulated energies on the EmcRecoHit (PndEmcBump) stage (even with energy correction done)

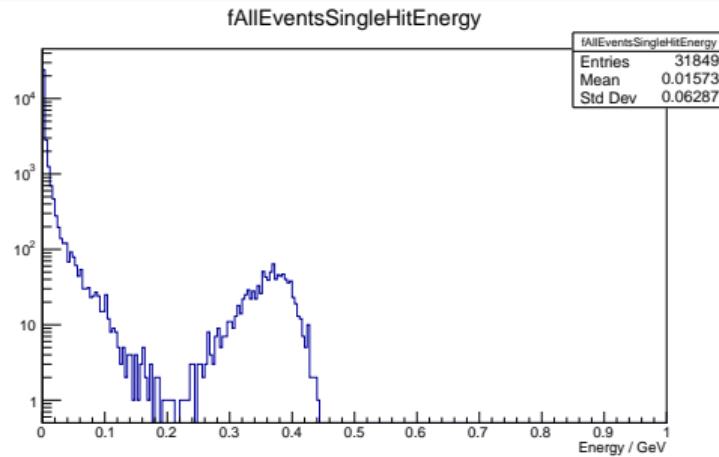
# Shashlik Energy “development”: Distribution of complete event energy for 1.5 GeV photon



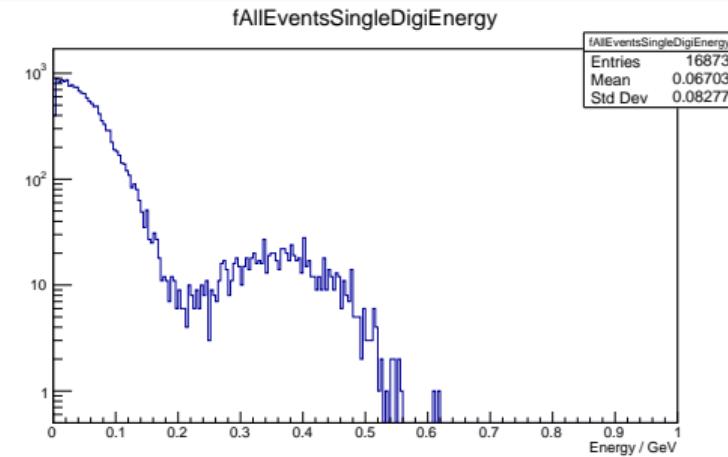
(a) On Hit level only 0.5 GeV exists

(b) Digi

# Shashlik Energy “development”: Distribution of single hit/digi energy

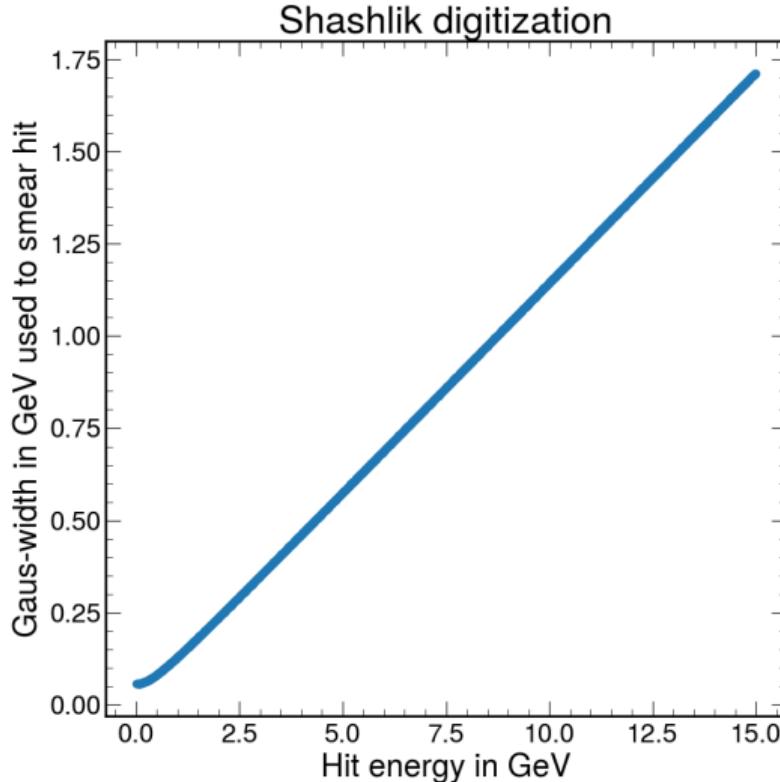


(a) Hit

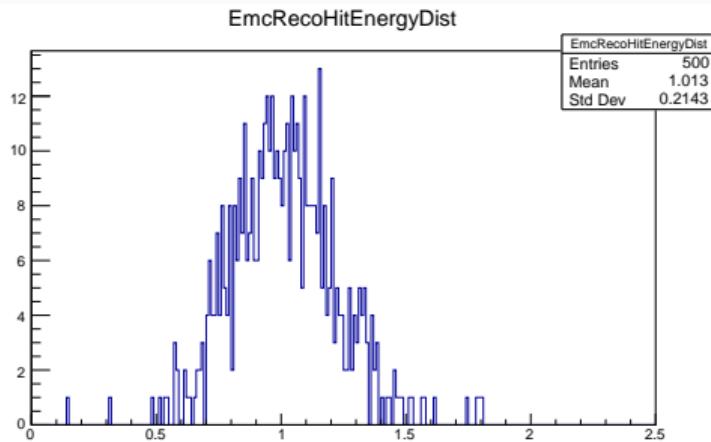


(b) Digi

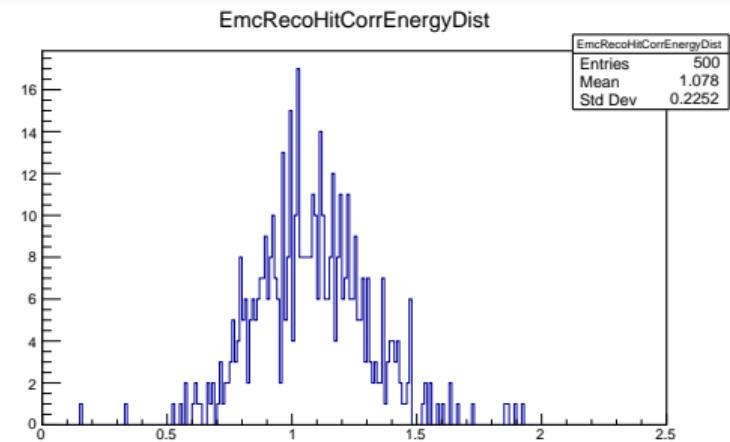
# Shashlik noise/smearing function



# Shashlik Energy “development”: Distribution of event RecoHit energy

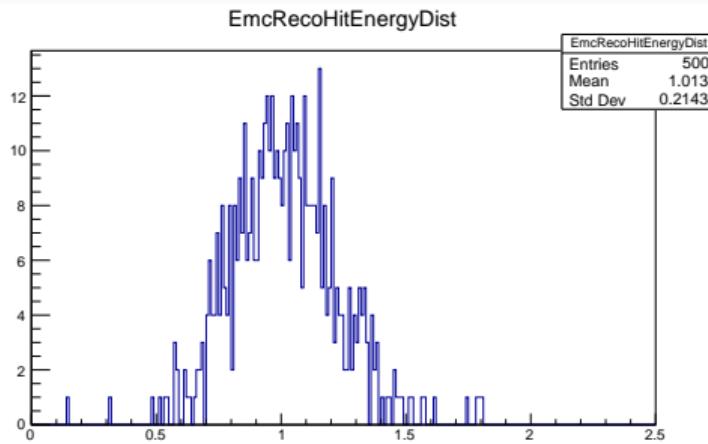


(a) Raw Energy

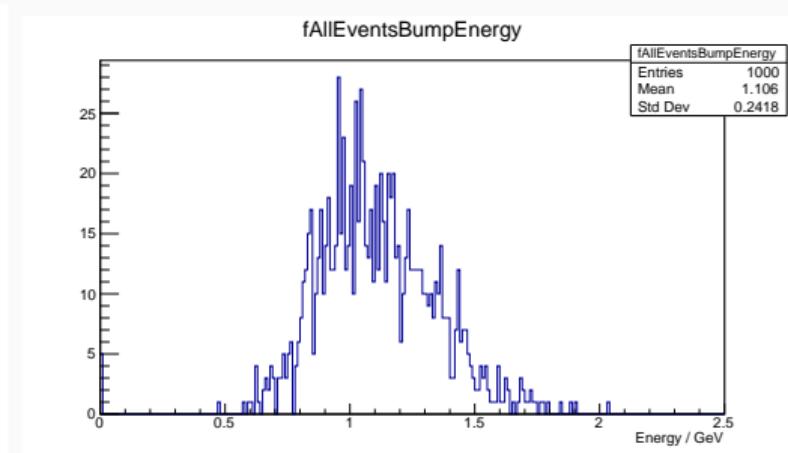


(b) “Corrected”

# Shashlik Energy “development”: Distribution of event RecoHit/Bump energy



(a) RecoHit (my code)



(b) Bump (untouched by me)

At this stage it does look comparable. I might just be missing an additional correction or something. I will figure it out eventually.

# Working on getting the new FwEndcap position right (blue Backplate and old yellow FwEndcap alveoles)

