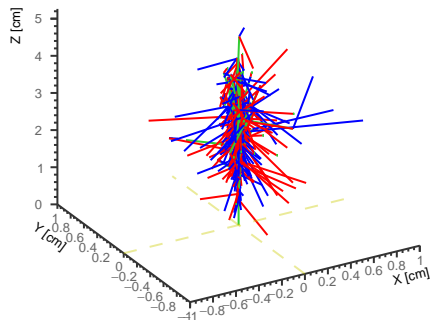


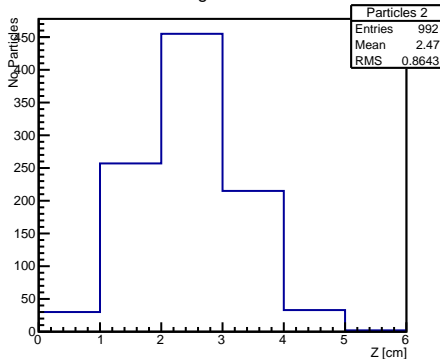
$E_i = 5000 \text{ MeV}$

Electromagnetic Shower in Gold

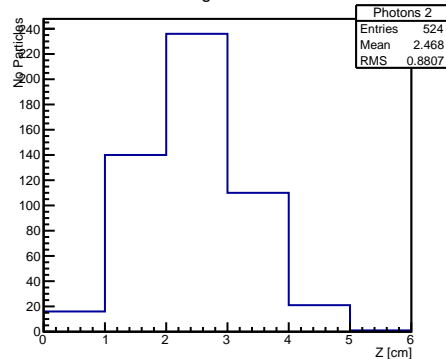
— Photons
— Electrons
— Positrons



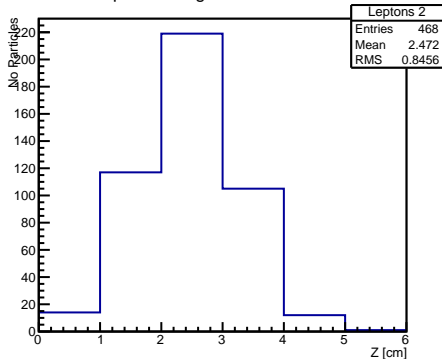
Particles' Longitudinal Distribution



Photons' Longitudinal Distribution



Leptons' Longitudinal Distribution



Electromagnetic Shower in Gold Generated by a photon with $E_i = 5000 \text{ MeV}$

Total No of Particles: 969

No of Photons: 387

No of Leptons: 582

No of Photon Pair Production Events: 291

No of Bremsstrahlung Radiation Events: 6700

No of Electron-Positron Annihilation Events: 51

Max Longitudinal Profile at 3 cm with 455 particles

Shower's Length: 6 cm

Shower's Width: 0.970602 cm