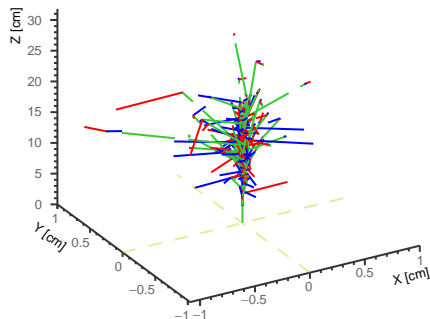


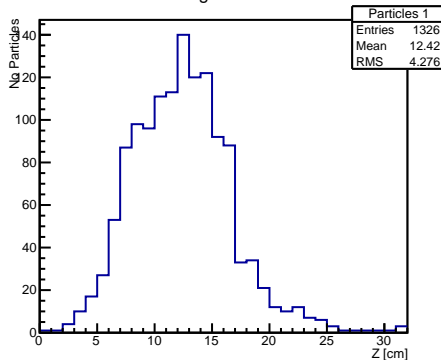
$E_i = 5000 \text{ MeV}$

## Electromagnetic Shower in Iron

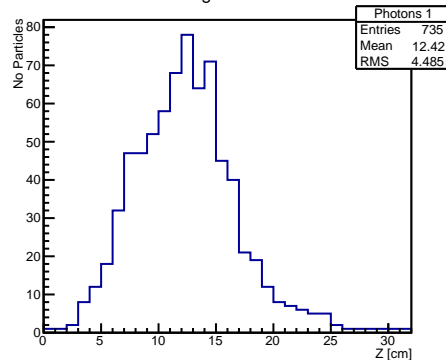
— Photons  
— Electrons  
— Positrons



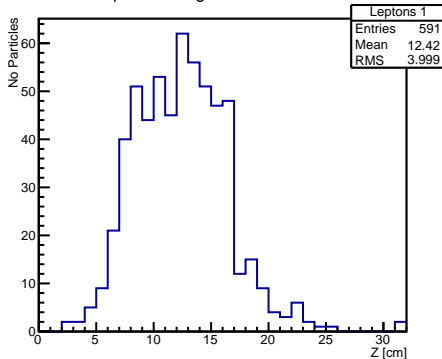
## Particles' Longitudinal Distribution



## Photons' Longitudinal Distribution



## Leptons' Longitudinal Distribution



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

Total No of Particles: 662

No of Photons: 260

No of Leptons: 402

No of Photon Pair Production Events: 201

No of Bremsstrahlung Radiation Events: 3050

No of Electron-Positron Annihilation Events: 31

Max Longitudinal Profile at 13 cm with 140 particles

Shower's Length: 32 cm

Shower's Width: 1.503002 cm