

A photon with energy  $0.46\text{MeV}$  is scattered off an electron at rest. The scattering angle is  $120$  degrees measure as the deviation from the photons original path.

A. What is the energy of the outgoing photon?

B. What is the energy of the outgoing photon at a scattering angle of  $0,180$  degrees?

C. What is the angle of the recoiled electron?

D. What is the energy of the recoiled electron?

E. What is the kinetic energy of the recoil electron?