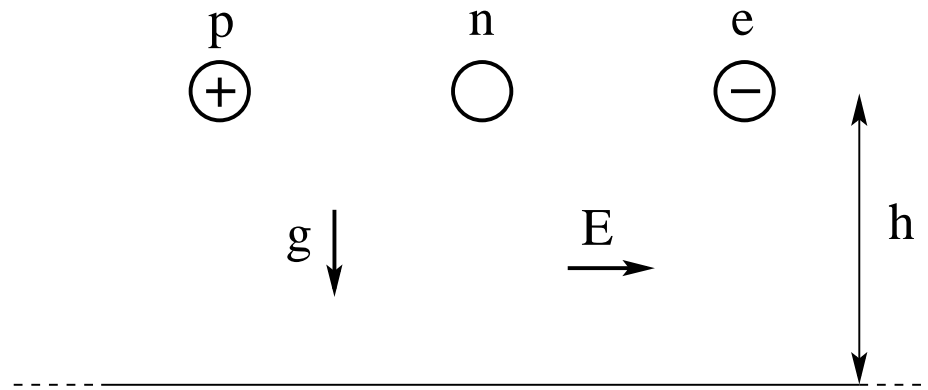


# Particle in Uniform Electric and Gravitational Field



A proton, a neutron, and an electron are dropped from rest at height  $h$  in a vertical gravitational field  $\vec{g}$  and in a horizontal electric field  $\vec{E}$ . Both fields are uniform.



- (a) Which particle travels the shortest distance?
- (b) Which particle travels the longest distance?
- (c) Which particle travels the shortest time?
- (d) Which particle reaches the highest speed?