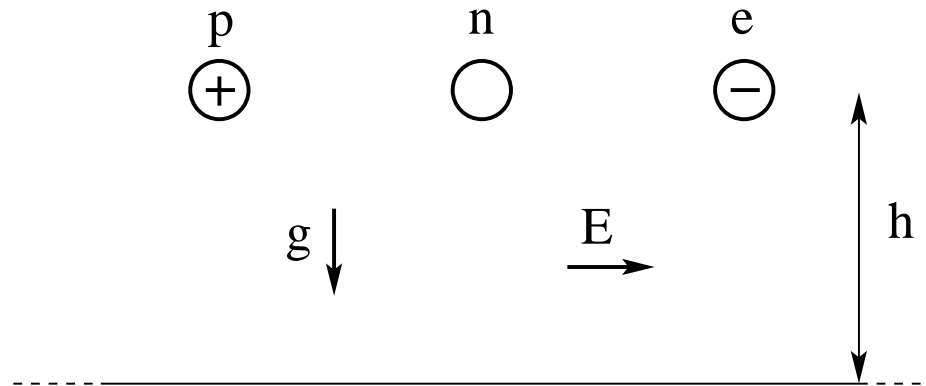


Particle in Uniform Electric and Gravitational Field (1)



A proton, a neutron, and an electron are dropped from rest in a vertical gravitational field \vec{g} and in a horizontal electric field \vec{E} as shown. 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?

Particle in Uniform Electric and Gravitational Field (2)



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

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

