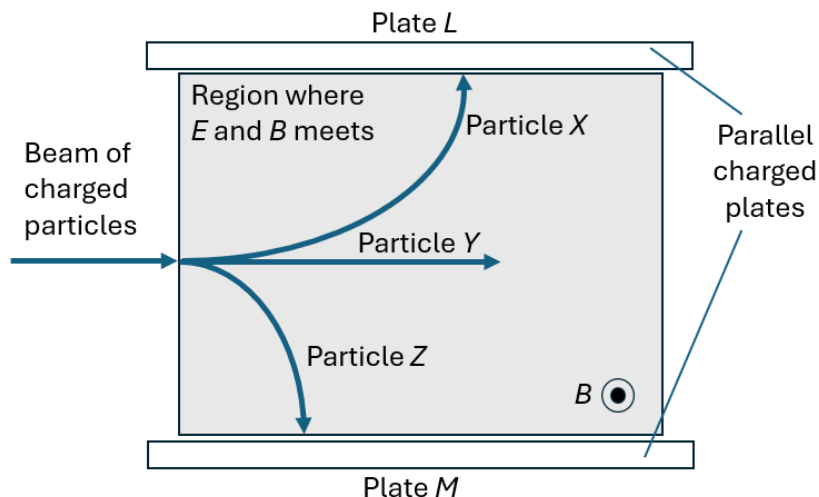


- 25** A beam of charged particles enters a region where a uniform electric field E setup by Plate L and Plate M is perpendicular to a uniform magnetic field B . Magnetic field B is directed out of the paper. The particles enter this region horizontally from the left.

The path of particle X , Y and Z are illustrated in the diagram below.



Which of the statement can be concluded from the observation?

- A** The velocity of particle Y is larger than $\frac{E}{B}$.
- B** Plate L has a lower potential than plate M .
- C** Particle X , Y and Z have the same polarity.
- D** Particle Z has a larger mass than particle X and Y .