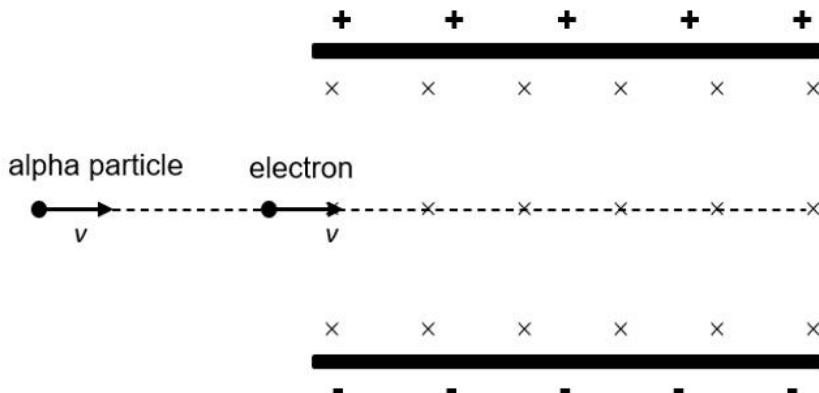


- 24** An electron enters the vacuum between two oppositely charged plates with velocity  $v$ . The electron is followed by an alpha particle moving with the same initial velocity as the electron. A uniform magnetic field is directed into the plane of the paper.



The electron's path is undeflected.

The path of the alpha particle will be

- A** undeflected.
- B** deflected upward.
- C** deflected downward.
- D** deflected into the plane of the paper.