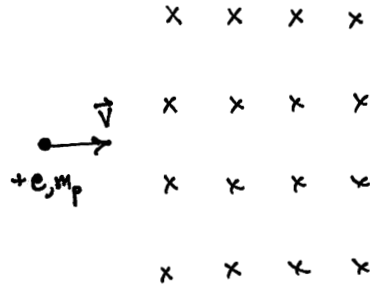


Physics 11

Lecture Problem 2

April 15, 2009

A proton is injected with a velocity of $4.2 \times 10^6 \text{ m/s}$ into a magnetic field 0.22 T as shown:



- Which way will the proton initially deflect when it enters the magnetic field?
- What is the radius of the resulting circular motion?