# Chapter Four

# MOVING CHARGES AND MAGNETISM



- **4.1** Two charged particles traverse identical helical paths in a completely opposite sense in a uniform magnetic field  $\mathbf{B} = \mathbf{B}_{\mathbf{a}} \hat{\mathbf{k}}$ .
  - (a) They have equal z-components of momenta.
  - (b) They must have equal charges.
  - (c) They necessarily represent a particle-antiparticle pair.
  - (d) The charge to mass ratio satisfy :  $\left(\frac{e}{m}\right)_1 + \left(\frac{e}{m}\right)_2 = 0$ .
- 4.2 Biot-Savart law indicates that the moving electrons (velocity v) produce a magnetic field B such that
  - (a) B ± v.
  - (b) B IIv.
  - (c) it obeys inverse cube law.
  - (d) it is along the line joining the electron and point of observation.

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