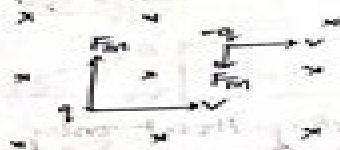


Moving Charges & Magnetism

Magnetic force on a moving charge.

If a charge 'q' moves in a magnetic field B with velocity \vec{v} it experiences a magnetic force given by $\vec{F}_m = q(\vec{v} \times \vec{B})$



$$F_m = Bqv$$

In magnitude, $F_m = Bqv \sin \theta$

[$\theta \rightarrow$ angle b/w \vec{v} & \vec{B}]

NB: $\therefore F_m \perp v \therefore$ work done by F_m is 0 always.

Special case:

① $\theta = 0^\circ$ or 180°

$$\sin \theta = 0$$

$$F_m = 0$$

$a = 0 \Rightarrow v = \text{const}$



$v_1 > v_2$
 $r_1 > r_2$
 $t_1 < t_2$

② $\theta = 90^\circ$

$$F_m = Bqv$$

\rightarrow path is circular.

F_m provides centripetal force

$$F_m = F_c$$

$$Bqv = \frac{mv^2}{r}$$

$$r = \frac{mv}{Bq}$$

$$r \propto v$$

Time period, $T = \frac{2\pi r}{v}$

$$T = \frac{2\pi m}{Bq}$$

independent of r & v

$$\text{freq. } (f) = \frac{Bq}{2\pi m}$$



③ If θ is any other angle ($\theta \neq 0^\circ; 90^\circ; 180^\circ$)

Due to $v \cos \theta$:-

$$F_m = 0$$

$v \cos \theta = \text{const}$

Due to $v \sin \theta$:-

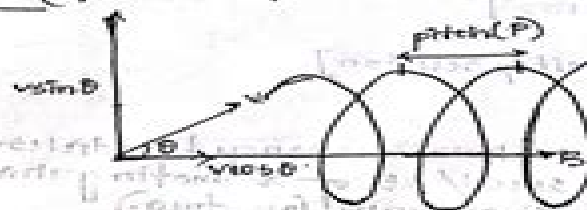
$$\theta = 90^\circ$$

\rightarrow circular

path is helical

$$\text{radius } (r) = \frac{mv \sin \theta}{Bq}$$

$$\text{Time period } (T) = \frac{2\pi m}{Bq}$$



$$P = (v \cos \theta) T$$

$$\Rightarrow P = v \cos \theta \frac{2\pi m}{Bq}$$

pitch \rightarrow displacement along the magnetic field in one complete rotation.

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