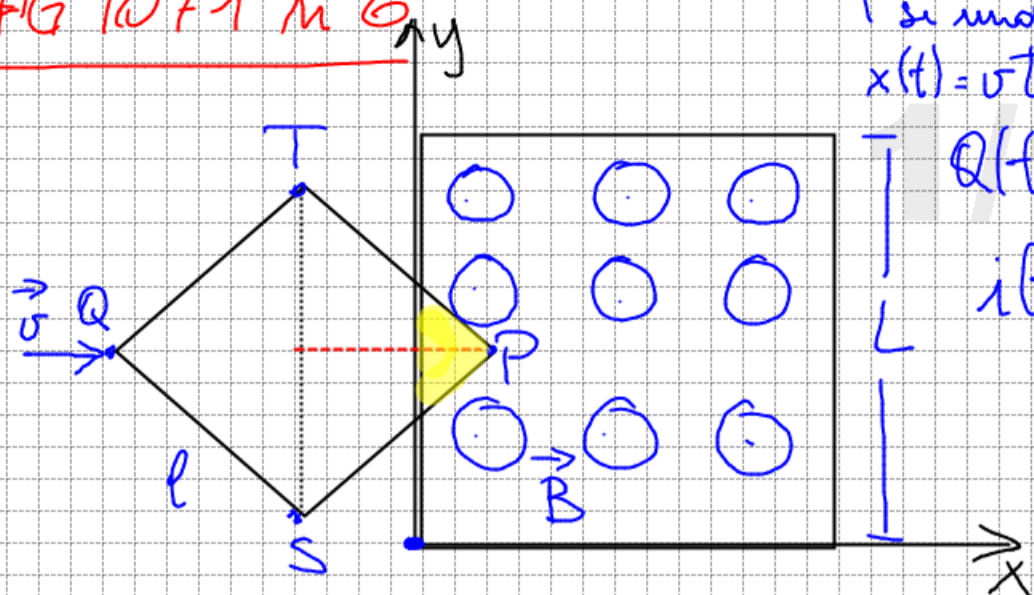


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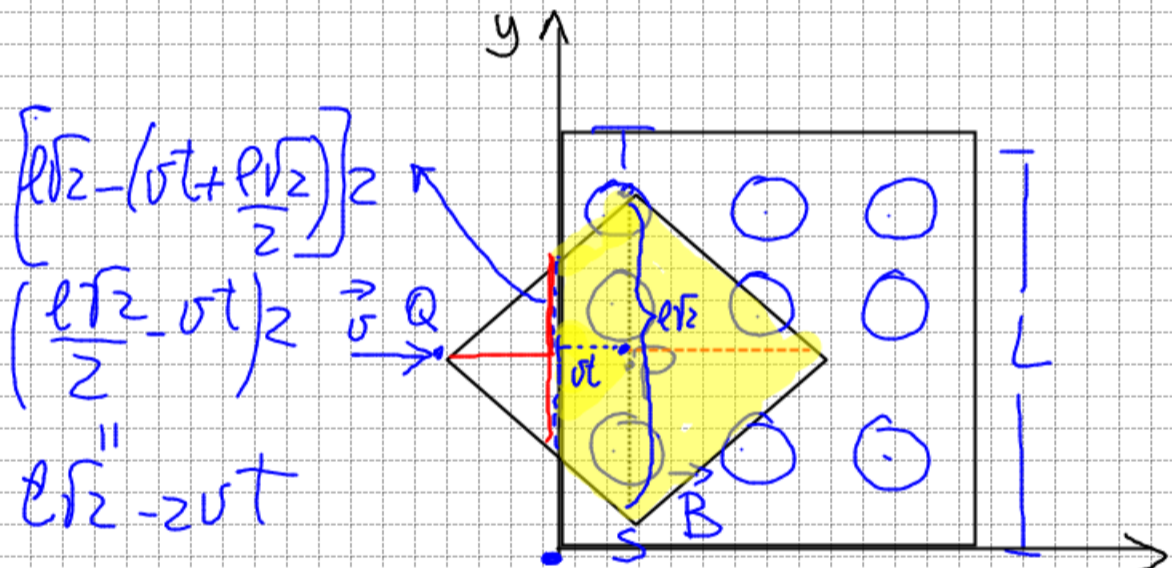
P si muove a velocità costante
 $x(t) = vt$

$Q(t)$ come varia?

$$i(t) = -\frac{NB}{R} \frac{d\Phi(t)}{dt}$$

Se P è come y cioè $x(t) = 0 \Leftrightarrow x(t) = vt = 0 \Leftrightarrow t = 0$
 e fino al caso in cui T è come y $\Leftrightarrow x(t) = \frac{l\sqrt{2}}{2} \Leftrightarrow vt = \frac{l\sqrt{2}}{2}$
 $\Leftrightarrow t = \frac{l\sqrt{2}}{2v}$

$$0 \leq t \leq \frac{l\sqrt{2}}{2v} \quad Q(t) = \frac{vt \cdot 2vt}{2} = v^2 t^2$$



$$\left[\frac{l\sqrt{2}}{2} - (vt + \frac{l\sqrt{2}}{2}) \right]^2$$

$$\left(\frac{l\sqrt{2}}{2} - vt \right)^2$$

$$l\sqrt{2} - 2vt$$

Se $\frac{l\sqrt{2}}{2} \leq x(t) \leq l\sqrt{2} \Leftrightarrow \frac{l\sqrt{2}}{2} \leq vt \leq l\sqrt{2}$

$$\frac{l\sqrt{2}}{2v} \leq t \leq \frac{l\sqrt{2}}{v} \quad Q(t) = l^2 - (l\sqrt{2} - vt) \cdot \frac{l\sqrt{2} - vt}{2}$$

$$Q(t) = l^2 - (l\sqrt{2} - vt)^2$$

finire per caso!