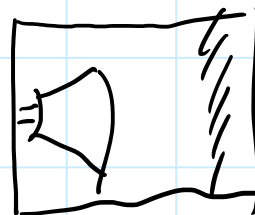
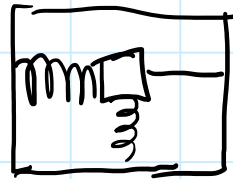
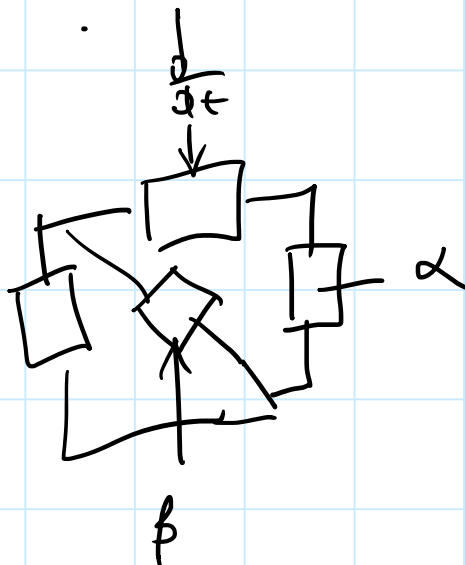
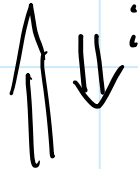


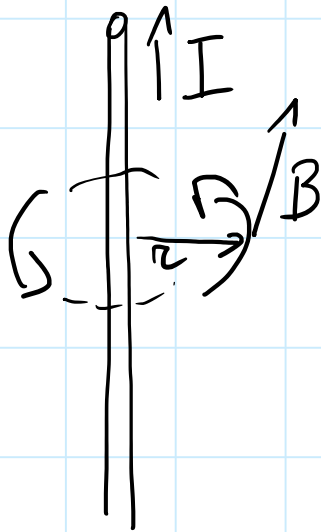
LEZIONE 7 MARZO 2017

07 March 2017 15:00

$$\begin{cases} \ddot{x} + \alpha \dot{x} + \beta x = f_1 \\ \ddot{x} + \alpha_2 \dot{x} + \beta_1 x = f_2 \\ \vdots \end{cases}$$



LEGGE DI AMPERE



$$B = \mu_0 \frac{\vec{I} \times \hat{r}}{2\pi r}$$



$$\oint_{\Sigma} \vec{B} \cdot d\vec{r} = \mu_0 I_{\text{CONC}} \text{ TENUTA}$$

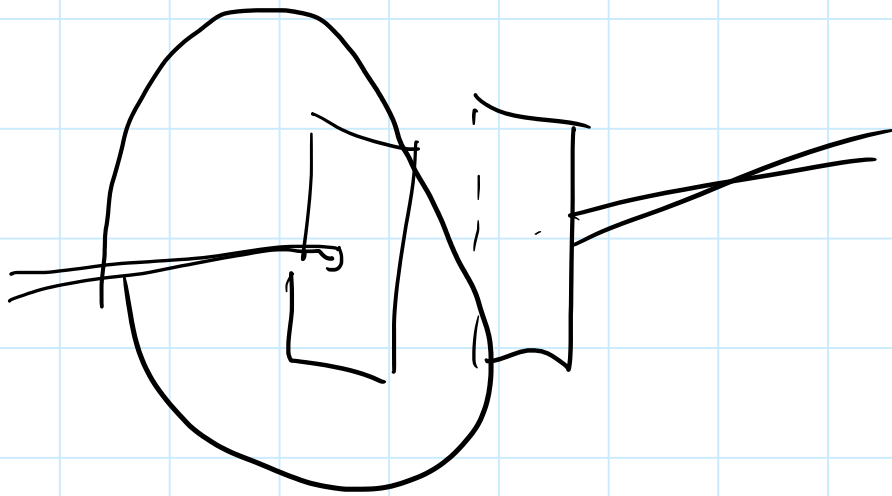


$$\oint_{\Sigma} B dr = \mu_0 \sum_{\alpha} I_{\alpha}$$

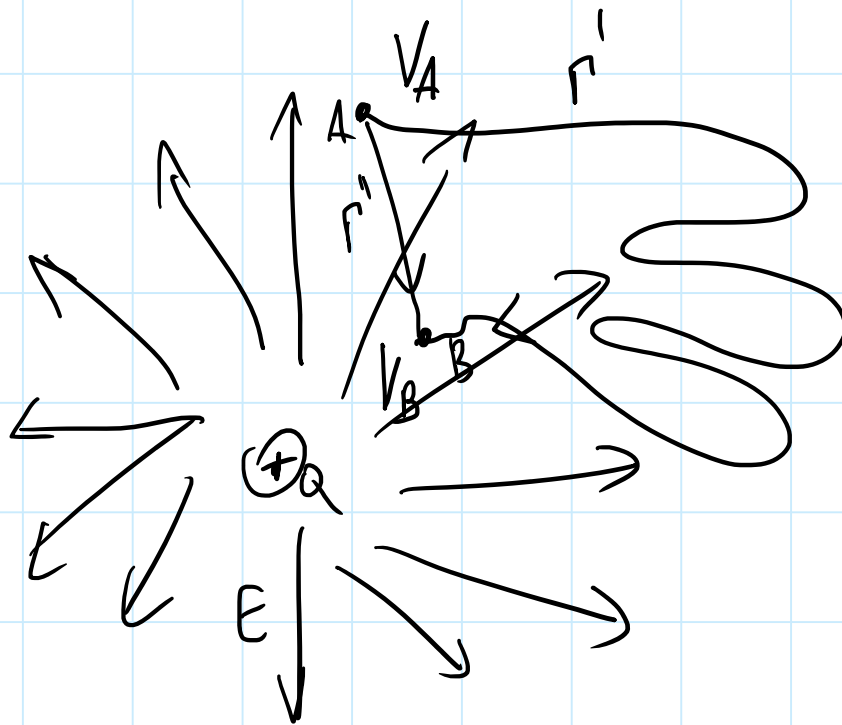


$$\oint B dr = 2\pi r |B|_0 = \mu_0 I_1$$

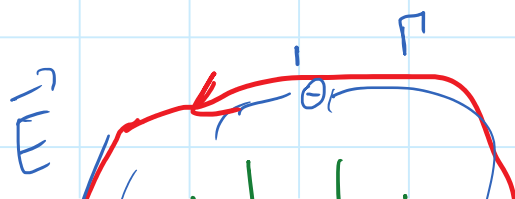
$$|B| = \frac{\mu_0 I}{2\pi r}$$



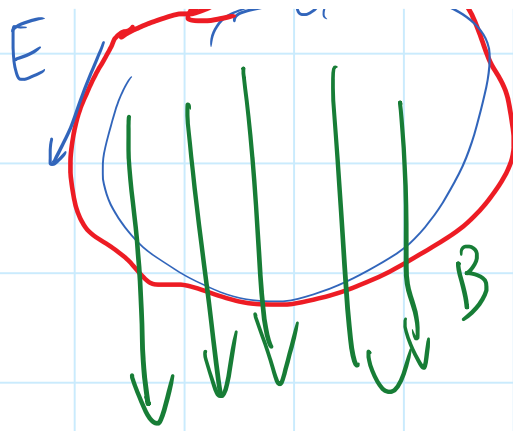
CAMPO ELETTRICO



$$\oint_{\Gamma'} E = \oint_{\Gamma''} E \Rightarrow \oint_{\Gamma} \vec{E} d\Gamma = 0$$

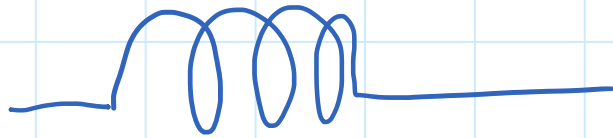


$$\oint_{\Gamma} \vec{E} d\Gamma = 0$$

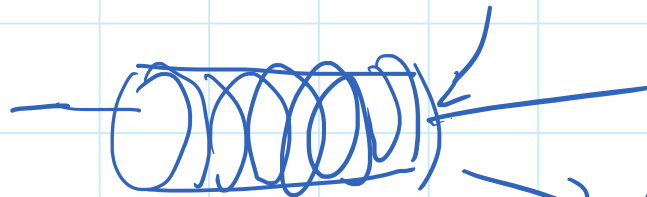


$$\oint_{\Gamma} \vec{E} d\vec{r} = - \frac{d\Phi(B)}{dt}$$

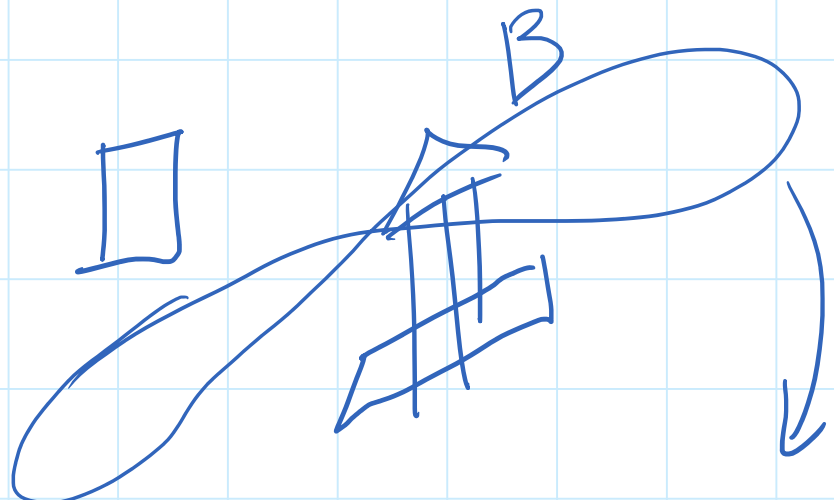
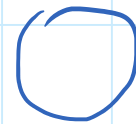
\parallel
 \downarrow
 $V = L \frac{dI}{dt}$

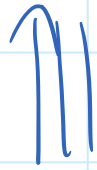
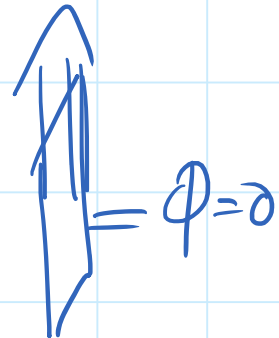


NUCLEO FENOMENO
MAGNETICO



$$\Phi(B) = L I$$





$\phi(B)$

$$\phi(B) = \phi_0 \cos(\omega t)$$