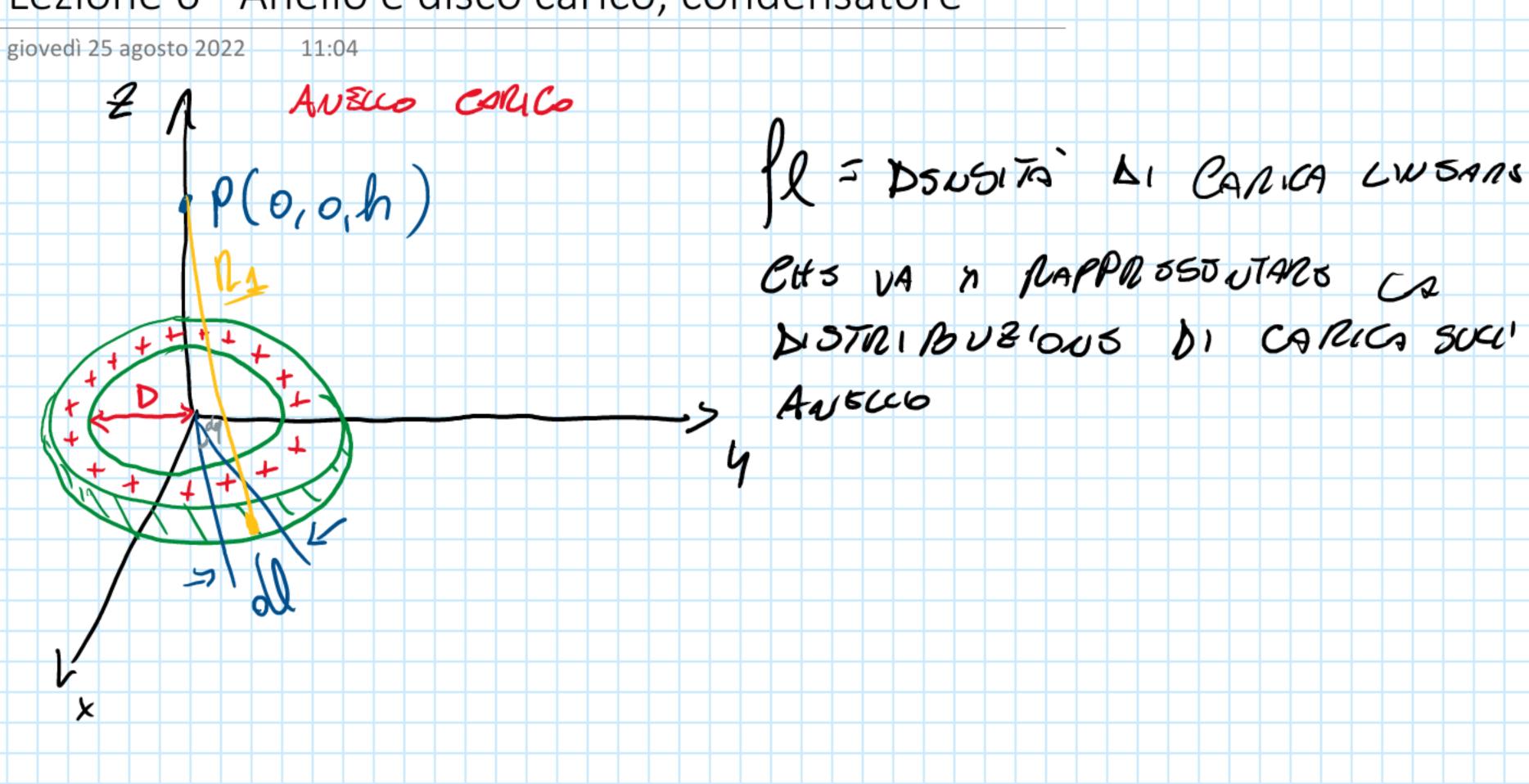
Lezione 6 - Anello e disco carico, condensatore



$$o(l = \overline{b} \cdot d\theta)$$

$$o(q = Pl \cdot dl = Pl \cdot b \cdot d\theta)$$

$$(\overline{z} = z \cdot b \cdot d\theta)$$

$$\frac{\partial(\vec{E}_{1} = 2R_{1} \cdot \frac{\partial(q)}{4\pi \epsilon R_{3}^{2}})}{R_{1} = -\hat{n}b + \hat{z}h ; |R_{3}| = \sqrt{6^{2} + h^{2}}}$$

$$\frac{\partial(\vec{E}_{1} = 2R_{1} \cdot \frac{\partial(q)}{4\pi \epsilon R_{3}^{2}})}{\partial(\vec{E}_{1} = -\hat{n}b + \hat{z}h) \cdot \beta \epsilon b \epsilon (q)}$$

$$\frac{\partial(\vec{E}_{1} = 2R_{1} \cdot \frac{\partial(q)}{4\pi \epsilon R_{3}^{2}})}{\partial(\vec{E}_{1} = 2R_{1} \cdot \frac{\partial(q)}{4\pi \epsilon R_{3}^{2}})}$$

ESERCITABIONS

CONSIDORIANO UN SOGNONTO CARIGO CARATTORIZZATO BA DENSITA BI CARICA LINGARD PL = SONC CHO SI DETENDE DALL'ORIGIUS ACCE CORDINATE PS = (0,3,0).

CACGCARE B 10 P(3,0,0)

$$\frac{d\theta}{d\pi \epsilon n^{2}} = \frac{d\theta}{4\pi \epsilon n^{2}} \qquad Ra = 3x^{2}$$

$$R = R_{1} - R_{2} = 3x^{2} - 49^{2}$$

$$\hat{R} = \frac{R}{1RT} = \frac{3x^{2} - 49^{2}}{\sqrt{9 + 4^{2}}}$$

$$\frac{3}{\sqrt{3x^{2} - 44^{2}}} = \frac{1}{\sqrt{17}} \left(\sqrt{3 + 4^{2}} \right)^{2}$$

$$\frac{3}{\sqrt{9 + 4^{2}}} = \frac{1}{\sqrt{17}} \left(\sqrt{3 + 4^{2}} \right)^{2}$$

SI CONSIDER ON FIG CONDUTTORS DI CUNGHEZZA (=30 an o CONSUCIBILITÀ 0 = 3.26. SAPONDO C+5 J= 230 B:? V=? P=?

$$\bar{B} = \frac{J}{\sigma} : \frac{230}{3 \cdot 16} = \frac{2}{2} \cdot \frac{5}{m}$$

$$V = \int_{0}^{3} 6 \cdot oU = -\int_{0}^{3} \frac{1}{2} \cdot \frac{5}{2} \cdot \frac{1}{2} \cdot \frac{1$$

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UN CICIUDRO AUGNTS CONDUCIBICITA O = 10-3/5 HA UN MAMETRA d= 10 am SAPONDO CHE E= 2 12 P CACCOURS

$$\vec{J} = \vec{0} \cdot \vec{8} = \vec{1} \cdot \vec{3} \cdot 12 \cdot \vec{2} = \vec{2} \cdot 12 \cdot 10^{-3}$$

$$\vec{l} = \vec{1} \cdot \vec{4} = \vec{1} \cdot \vec{3} \cdot 7 \cdot 8 \cdot 10^{-3} = 12 \cdot 8 \cdot 10^{4} \text{ UV}$$

$$A = \underbrace{\text{Tr.}(0, 20)}_{5}^{2} \cdot 7, 8 \cdot 25^{-3}$$

$$I = \iint_{\mathbb{T}} \int_{-\infty}^{\infty} ds = \iint_{\mathbb{T}} \hat{z} \, dz \cdot 2\pi^{-3} \cdot \hat{z} \, d\theta \, d\theta = 3.14 \cdot 10^{-8} \, d$$