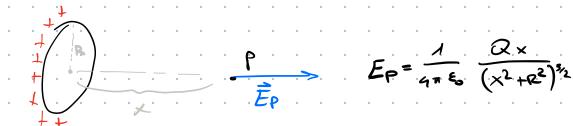
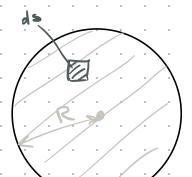
RICORDIAMO

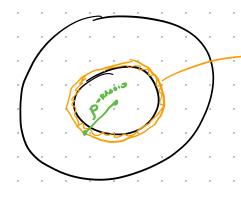


dg= ods



$$\overline{E_{VOV}} = \int d\vec{\epsilon} = \int \frac{1}{4\pi\epsilon_0} \cdot \frac{\sigma ds}{\pi^2} \hat{n}$$

DOBBIAND CERCARE DI SERUTTARE
LA SIMMERIA DEL PROBLEMA



ANELLO DI AREA INFINITEMMO

il comps produto de

un ANELLO spinge lung

Priends pe[o,R]

p formano anelli

la samma vettoriale sarà tre vettori lungo la sterse diretione e le sters verse

$$E_{p} = \int_{S} dE = \int_{S} \frac{1}{(x^{2} + \beta^{2})^{\frac{3}{2}}} del disc$$

$$del disc$$

$$= \int \frac{1}{(x^2 + \beta^2)^{3/2}} conse[0,R]$$

$$E_{TOT} = \int_{0}^{R} \frac{1}{(x^{2}+p^{2})^{3/2}} dpx$$

$$= \frac{\sigma}{2\xi_0} \times \int_{0}^{R} \frac{f^2 df}{(x^2 + f^2)^{3/2}} = \frac{\sigma \times \left(-\frac{1}{\sqrt{x^2 + f^2}}\right)^{R}}{2\xi_0}$$

$$\frac{\sqrt{1-\frac{x}{\sqrt{x^2+p^2}}}}{2E_0}$$
 d'ressone dell'asse

SIAMO IN GRADO DI CAZCOLARES (L CAMPO DISO AN UNA DISTANERA X GENERAR DA UN

Posso velutere il compo generato con R so

$$\vec{E}_{P} = \lim_{R \to \infty} \left(\right) \hat{\alpha} = \frac{\nabla}{2E_{0}} \hat{m}$$

 $dq = \sigma ds$

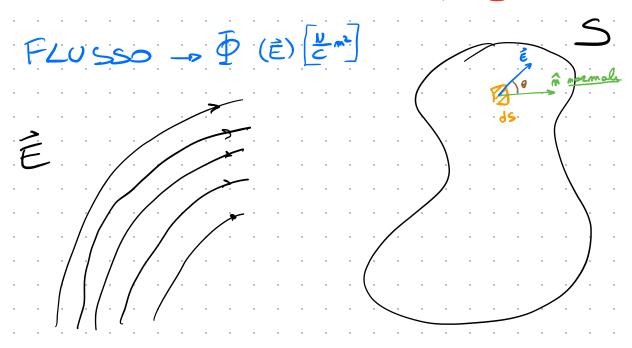
ds:

279

ds = 27 p. dp

dq = 0.279.dp

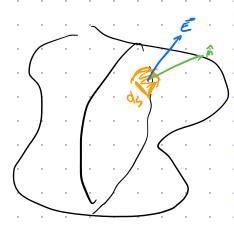
CERCHIAMO UN ALTRA SOUZIONE



0=T = 650 =

Il plus capisa se il compo inverte il piano e on quali entité

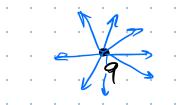
SOP. CHIUSA

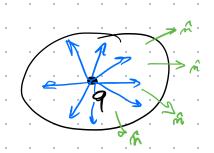


Il <u>verso</u> pi m va da dentro verso l' esterno

ESERVIZO

Prendiomo una corsa puntiformo





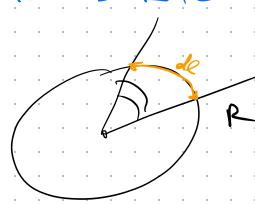
La Spere conterer un Volume

$$\overline{\Phi}(\vec{E}) = \oint \vec{E} \cdot \hat{A} dS = \oint E dS = E \oint dS = E \cdot 4\pi R^2$$

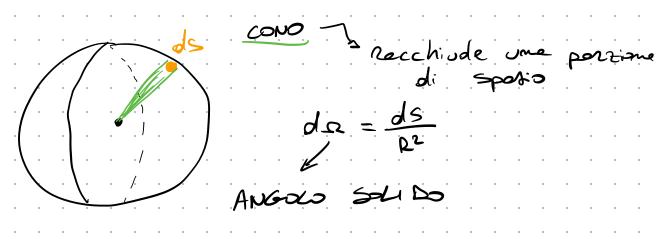
E=
$$\frac{1}{G\pi E}$$
 $\frac{9}{R^2}$ $\frac{1}{G\pi E}$ $\frac{1}{G\pi$

DIMOSTRAZIONE

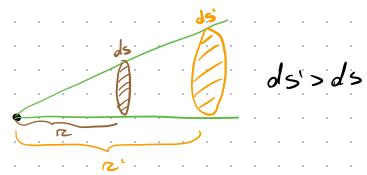




$$d\theta = \frac{dl}{R}$$



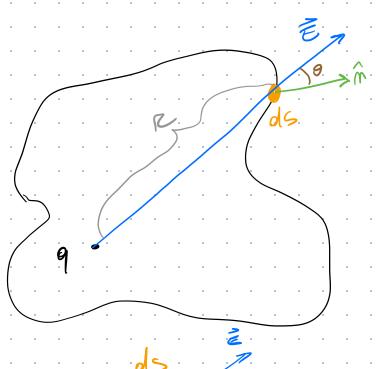
$$d\alpha = \frac{ds}{R^2}$$



Se ds = cot = 0 $\frac{ds}{n^2} = \frac{ds'}{r^2}$ S = [STERADIANNT]

$$\Omega = \int d\Omega = \int \frac{dS}{R^2} = \frac{1}{R^2} \int dS = \frac{1}{R^2} \cdot 4\pi R^2 = \frac{1}{R^2}$$
Store

Store



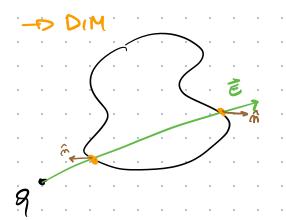
SUPERFICIE CHIUSA

$$d\Phi(\vec{\epsilon}) = \vec{E} \cdot \hat{n} ds = E_{CS} \theta ds$$

COSO la diventore le sup di une sup mon sterca in une sup sheir

DE la cterre diresse d'in $d \mathcal{E}(\vec{\epsilon}) = E R^2 . d \Omega$

= 1 9 2. 2 ds $d\Phi(\vec{\epsilon}) = \frac{9}{4\pi\epsilon_0} d\Omega$ distance



VERDRI 1 OPPOSTO E Si ANNULLANO

$$= \oint \sum_{i=1}^{\infty} \vec{e}_i \cdot \hat{m} \cdot ds = \sum_{i=1}^{\infty} \oint \vec{e}_i \cdot \hat{m} \cdot ds$$

$$=\sum_{i=1}^{\infty}\frac{a_{i}(imt)}{\varepsilon_{0}}=\boxed{\Phi}=\frac{Q}{\varepsilon_{0}}$$

Distribacione continue nel volume

$$\overline{\Phi}(\vec{\epsilon}) = \frac{1}{\epsilon_0} Q^{(imt)}$$

$$\overline{\Phi}(\hat{\epsilon}) = \frac{1}{6} \, \varphi^{(int)} \qquad \overline{\Gamma} \, L = 6600 \, \text{DI}$$

$$MAXWELL$$

$$Q = \int dq = \int P dv - D \left(\vec{\epsilon} \right) = \frac{1}{\epsilon_0} \int P dv$$