$$\frac{1}{\sqrt{2}} = 0 \iff \frac{1}{\sqrt{2}} = 0$$

$$\frac{1}{\sqrt{2}} = 0$$

$$\frac{1}$$

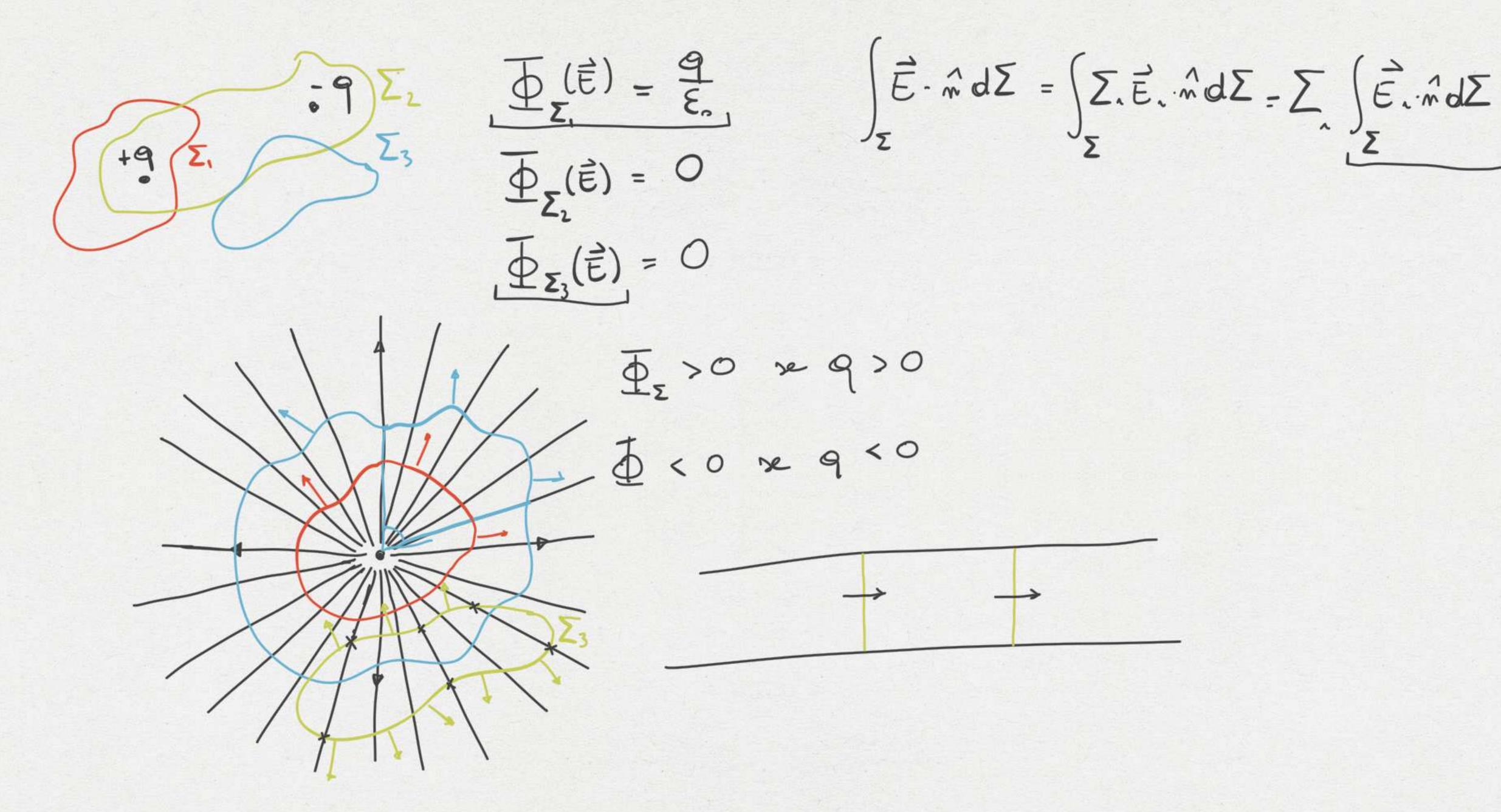
TEOREMA

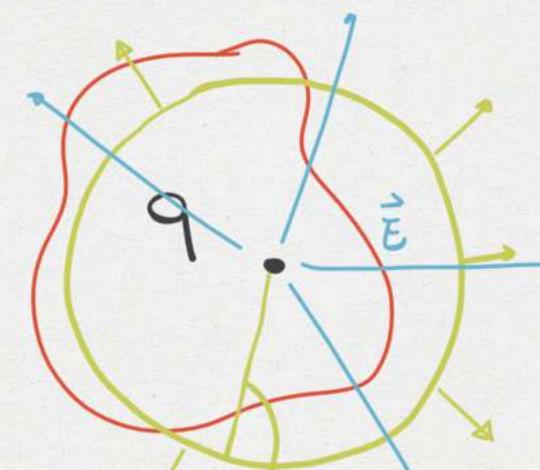
$$\frac{1}{\hat{E}} = \int_{\Sigma} \hat{E} \cdot \hat{A} d\Sigma = \int_{\Sigma} \hat{E} \cdot \hat{A} d\Sigma$$

$$\Phi(\vec{E}) = \vec{E} \cdot \hat{n} d\Sigma$$

$$\Phi_{\Sigma}(\vec{E}) = \iint_{\Sigma} \vec{E} \cdot \hat{n} d\Sigma = \frac{1}{\varepsilon_{s}}$$

 Q_{Σ} et la somme algebrica delle coricle oll'interno di Σ





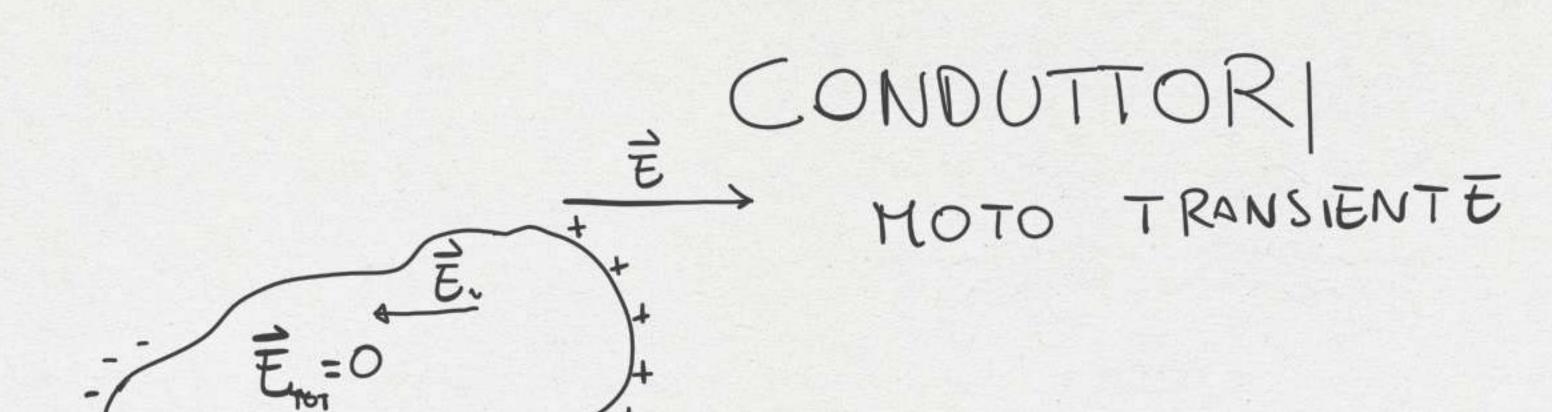
$$d = E \cdot \Delta Z =$$

$$E = \int_{\Sigma} (E) = \int_{\Sigma} E(z) d\Sigma = \int_{\Sigma} E(R) d\Sigma = E(R) \int_{\Sigma} d\Sigma = E(R) \int_{\Sigma} d\Sigma = E(R) \int_{\Sigma} dz$$

$$\Phi_{z}(\vec{E}) = \mathcal{Z} = E(R) 4\pi R^2 =$$

$$\int_{\Sigma} \frac{1}{\hat{E} \cdot \hat{n}} d\Sigma = \int_{\Sigma} \frac{1}{\hat{E} \cdot \hat{n}} d\tau = \frac{Q_{\Sigma}}{E_{o}} = \frac{1}{E_{o}} \int_{\Sigma} 2d\tau$$

$$\int_{\Sigma} \frac{1}{\hat{E} \cdot \hat{n}} d\tau = \int_{\Sigma} \frac{1}{\hat{E} \cdot \hat{n}} d\tau = \int$$



2) le covide son sob sulla superficie
$$\vec{E} \rightarrow \vec{Q} \vec{E} \Rightarrow \vec{Q} \vec{E} \Rightarrow \vec$$

3
$$\Delta V = -\int_{A}^{B} \dot{\vec{E}} \cdot d\vec{s} = 0 = V(B) - V(A)$$
 |=> $V = cost$ in un conduttore

$$\overline{\Phi}_{\Sigma}(\overline{E}) = \overline{\Phi}_{\Sigma}^{LAT} + \overline{\Phi}^{8a561} + \overline{\Phi}^{8a562} \approx \overline{\Phi}^{8a561} + \overline{\Phi}^{8a562} =$$

$$= \overline{\Phi}^{8a561} = \int_{8a561}^{\overline{E} \cdot n'} d\Sigma = \int_{8a561}^{\overline{E} \cdot n'} d\Sigma = E \int_{8a561}^{\overline{E}$$

$$\overline{\Phi}_{\Sigma}(\dot{E}) = \overline{Q}_{\Sigma} = \overline{Q}_{\Sigma} = \overline{Q}_{\Sigma}$$

$$Q_{\Sigma} = \int \sigma d\Sigma = \sigma \int_{\text{Bass} 1} dZ = \sigma \pi R^{2} \Rightarrow$$

$$E_{\pi} R^{2} = \frac{\sigma \pi R^{2}}{\varepsilon_{o}} \Rightarrow E = \frac{\sigma}{\varepsilon_{o}} \Rightarrow \text{tes rema di Goulomb}$$

$$E_{\pi}R^2 = \sigma_{\pi}R^2 \Rightarrow E = \frac{\sigma}{\epsilon}$$