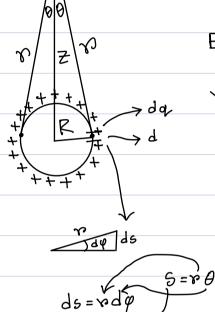


one dimention



$$E = \frac{1}{4\pi\epsilon_0} \frac{q}{rr}$$

$$\lambda = \frac{dq}{d6}$$

$$\lambda = \frac{dq}{rdq}$$

$$dE_{1} = \frac{1}{4\pi\epsilon \epsilon_{0}} \times \frac{dq}{\gamma r^{\gamma}}$$

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$$\frac{\partial}{\partial E_{total}} = \frac{\partial}{\partial E_{1}} + \frac{\partial}{\partial E_{2}}$$

$$= \frac{\partial}{\partial E_{1}} \frac{\partial}{\partial E_{2}} \frac{\partial}{\partial E_{2}} \frac{\partial}{\partial E_{1}} \frac{\partial}{\partial E_{2}} \frac{\partial}{\partial E_{2}} \frac{\partial}{\partial E_{1}} \frac{\partial}{\partial E_{2}} \frac{$$

$$=2\frac{1}{4\pi\epsilon_0}\frac{3Rd9}{n}\frac{Z}{n}$$

$$\cos\theta = \frac{Z}{n}$$

$$\gamma^* = Z+R$$

$$= 2 \frac{1}{4\pi\epsilon_0} \frac{\lambda R J \varphi Z}{\gamma 3}$$

$$= \frac{1}{2\pi t_0} \frac{9RZ}{(\sqrt{Z^{\gamma}+R^{\gamma}})^3} \varphi_0^{\dagger}$$

2TR. 77

4TCto (VZTEr)3

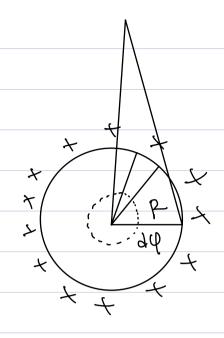
4TC to (VZY+PV)3

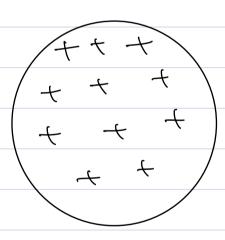
$$\frac{1}{R} q = \frac{dq}{ds}$$

$$7 = \frac{q}{2\pi R}$$

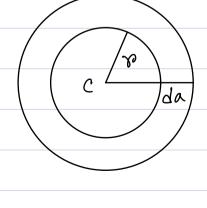
: 9 = 9.2TCR

=> dq= Ads= ARdp





Zrtav=u Zada=du ada=du



dEning

$$= \frac{1}{4\pi\epsilon_0} \frac{dqz}{(\sqrt{z_{+ar}})^3}$$

$$= \frac{1}{4\pi\epsilon_0} \frac{\sigma \cdot 2\pi adaz}{(\sqrt{z_{+ar}})^3}$$

$$E = \frac{Z}{4\pi\epsilon_0} \sigma \cdot 2\pi \left(\frac{R}{\Delta dA}\right) = \frac{dq}{dA}$$

$$= \frac{dq}{dA}$$

$$= \frac{dq}{2\pi\Delta dA}$$

$$dq : 2\pi\Delta dA$$

$$dq : 2\pi\Delta dA$$

$$= \frac{\sigma}{2\epsilon_0} \left[1 - \frac{Z}{\sqrt{R^*(\frac{Z^*}{R^*} + 1)}}\right] = \frac{\sigma}{2\epsilon_0} \left[1 - \frac{Z}{\sqrt{R^*}}\right]$$

$$= \frac{\sigma}{2\epsilon_0} \left[1 - \frac{Z}{\sqrt{R^*}}\right]$$

$$= \frac{\sigma}{2\epsilon_0} \left[1 - \frac{Z}{\sqrt{R^*}}\right]$$