Regia Università degli Studj di Napoli

Ill.mo Sig. Rettore

223,50

Ho l'onore di rimettere la fattura, d'un credito di marchi 223,50, da pagarsi dalla Ditta, al Sig. Martin Schilling, Halle a. S. (Germania), per modelli forniti al Gabinetto di Calcolo infinitesimale, sul fondo di L. 800, assegnato alla mia Cattedra per l'anno 1905-06. — (maggiore ... delle fatture)

Con ... ossequio

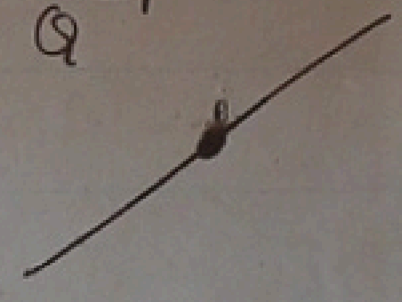
$\nu\nu$

$$\begin{cases} \lambda x+\mu y+\nu z=0 \\ \frac{\alpha}{4}(x^2+y^2+z^2)=\frac{1}{\sqrt{1+\lambda^2+\mu^2+\nu^2}} \end{cases}$$

$\sout{(\lambda^2+\mu^2+\nu^2)x}$

$$x=\frac{\alpha}{4}(x^2+y^2+z^2)\left[Qx+Q'(x+[illegible])+Q'(\nu y-\mu z)+Q'(\lambda^2+\mu^2+\nu^2)x\right]$$

$$\frac{1}{Q}-1=$$



$$1=\frac{\alpha}{4}(x^2+y^2+z^2)\left[Q+Q'(1+\lambda^2+\mu^2+\nu^2)\right]$$

$$\frac{Q^2}{\frac{1}{Q}-Q}\ \ \mp Q'(1+\lambda^2+\mu^2+\nu^2)$$

$$\frac{Q}{\frac{1}{Q}-Q}-Q$$

$$\frac{Q^2}{1-Q}=Q'(1+\lambda^2+\mu^2+\nu^2)$$

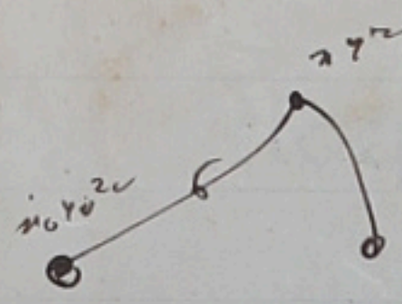
$$Q\ \frac{Q^2}{1-Q}$$

$$\frac{1-Q}{Q^2}(1+\lambda^2+\mu^2+\nu^2)=1+[illegible](1+\lambda^2+\mu^2+\nu^2)\left(\frac{1}{Q}-1\right)$$

$$\left(\frac{1}{Q^2}-\frac{2}{Q}+1\right)\qquad\left(\frac{1}{Q}-1\right)=\pm\frac{1}{\sqrt{1+\lambda^2+\mu^2+\nu^2}}$$

$$\frac{\alpha}{4}(x^2+y^2+z^2)=\pm\frac{1}{\sqrt{1+\lambda^2+\mu^2+\nu^2}}$$

$$\frac{\sigma}{2R} = Q + Q' - 2QQ'\left[1 + \frac{\alpha}{4}(xx' + \dots)\right]$$



$$\frac{\sigma}{2R} = Q + Q_0 - 2QQ_0\left[1 + \frac{\alpha}{4}(xx_0 + \dots)\right]$$

$$0 = \delta Q - 2Q_0\delta Q\left[1 + \frac{\alpha}{4}(xx_0 + \dots)\right] - 2QQ_0\frac{\alpha}{4}(x_0\delta x + y_0\delta y + z_0\delta z)$$

$$\begin{cases} \delta x = l + \mu z - \nu y + \frac{\alpha}{2}x(lx + my + nz) - \frac{\alpha}{4}l(x^2+y^2+z^2) \\ \delta y = m + \nu x - \lambda z + \frac{\alpha}{2}y(\dots) - \frac{\alpha}{4}m(\dots) \\ \delta z = n + \lambda y - \mu x + \frac{\alpha}{2}z(\dots) - \frac{\alpha}{4}n(\dots) \end{cases} \quad \begin{matrix} x_0 \\ y_0 \\ z_0 \end{matrix}$$

$$\frac{1}{Q} = 1 + \frac{\alpha}{4}(x^2+y^2+z^2)$$

$$-\frac{1}{Q^2}\delta Q = \frac{\alpha}{2}(x\delta x + y\delta y + z\delta z)$$

$$-\frac{\delta Q}{Q^2} = \frac{\alpha}{2}\left[lx + my + nz + \frac{\alpha}{4}(x^2+y^2+z^2)(lx+my+nz)\right] = \frac{\alpha}{2}(lx+my+nz)\cdot\frac{1}{Q}$$

$$\delta Q = -\frac{\alpha}{2}Q(lx+my+nz)$$

$$0 = +(lx+\dots)\left\{1 - 2Q\left[\frac{\alpha}{2}(xx_0+\dots)\right]\right\} + Q_0\left\{lx_0+my_0+nz_0 + \lambda(yz_0 - zy_0) + \dots + \frac{\alpha}{2}(xx_0+\dots)(lx+my+nz) - \frac{\alpha}{4}(lx_0+\dots)(x^2+y^2+z^2)\right\}$$

$$1 - \frac{2}{1+\frac{\alpha}{4}(x^2+y^2)}$$

$$4Q^2 - 4Q + 1 = \lambda^2 y$$

$$2Q - 1 = \pm\lambda y$$

$$1 - 2Q = \lambda y$$

$$-2(lx+my+nz) - \frac{\alpha}{2}(\dots)(\dots)$$