$$\nabla(Y_1Z) = -\frac{q^d}{2\pi(J^2 + Y^2 + Z^2)^{3/2}} \qquad \int_{X=d}^{\infty} \nabla(Y_1Z) \frac{dy}{dx}$$

$$\int_{Y_1Z} \int_{X=d}^{\infty} \nabla(Y_1Z) dx = -\int_{Y_1Z} \int_{Y_2} \frac{q^d}{2\pi(J^2 + Y^2 + Z^2)^{3/2}} dy dz$$
Thorax =
$$\int_{Y_1Z} \nabla(Y_1Z) dx = -\int_{Y_2} \int_{Y_2} \frac{q^d}{2\pi(J^2 + Y^2 + Z^2)^{3/2}} dy dz$$
Plano
$$\int_{Y_1Z} \nabla(Y_1Z) dx = -\int_{Y_2} \int_{Y_2} \frac{q^d}{2\pi(J^2 + Y^2 + Z^2)^{3/2}} dy dz$$

$$= -\frac{9d}{2\pi} + \int_{0}^{\infty} \frac{1}{(J^{2} + 1^{2} + 2^{2})^{3}/2} dy dz$$

$$= -29d + \int_{0}^{\infty} \frac{1}{(J^{2} + 1^{2} + 2^{2})^{3}/2} dy dz$$

$$= -29d + \int_{0}^{\infty} \frac{1}{(J^{2} + 1^{2} + 2^{2})^{3}/2} dy dz$$

Usunda MoB:

$$\frac{1}{(d^2+1^2+2^2)^{3/2}}=\sum_{n=1}^{\infty}\sum_{n=1}^{\infty}\sum_{n=1}^{\infty}p_n\phi_n\phi_n d^{2n}+2$$

donde
$$\phi_3 = \frac{(-1)^8}{\Gamma(3+1)}$$

teemplezandr en le integral

Total =
$$-\frac{29d}{TT}$$
 $\frac{1}{N_1m_1}$ $\frac{1}{N_1m_2}$ $\frac{1}{N_1m_2}$

 $\left(\mathcal{A}_{Z}\right)$

Luego le serie de brackets equivalente de le integral ex:

$$= -\frac{2qd}{\pi \Gamma(3/2)} \frac{d^{2n} \Gamma(-n)\Gamma(-m)\Gamma(-l)}{4}$$

$$= -\frac{1}{2} \frac{d^{2n} \Gamma(3/2)}{4} \frac{d^{2n} \Gamma(-n)\Gamma(-m)\Gamma(-l)}{4}$$

$$= -\frac{2q^{d}}{\pi \Gamma(3|2)} \frac{d^{-1}\Gamma(1|2)}{4} ; con \Gamma(1|2) = \sqrt{\pi}$$

$$\Gamma(3/2) = \sqrt{\pi}$$

1 La conga inducide en el plant es (q) por que todos los líneas de frerta desde q llegon al plant!