CALCUL DU CHAMP B

*Les plans passant par Oz sont des plans d'antisymétrie pour 7: B=Bzez (SUR L'AXE)

 \times invariance par rotation: B(r,0,2) = B(r,2)

* champ d'une spire: dB(M) = 42 sin3(8) de

$$z-z_p = \frac{R}{t_{ano}} \Rightarrow dl = dz_p = \frac{R}{\sin^2 \theta} d\theta$$
 I

$$\Rightarrow B_2(n) = \frac{\mu n T}{2} (\cos \theta_2 - \cos \theta_2)$$

RELATION CHAMP AXIAL / RADIAL

$$\overrightarrow{\nabla} \cdot \overrightarrow{B} = 0$$

$$\frac{1}{r} \frac{\partial r \partial r}{\partial r} + \frac{1}{r} \frac{\partial \theta}{\partial \theta} + \frac{\partial \theta}{\partial z} = 0$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

$$\frac{\partial r}{\partial r} = \frac{1}{r} - A t_{an} \left(\frac{z + L(z)}{R} \right)$$

 $B_{1} = -\frac{1}{2} \frac{dB_{2}}{dB_{2}}$ $\frac{dB_{3}}{dB_{3}} = \frac{2}{\mu h I} \left(\frac{\omega_{5} \theta_{5}}{d\theta_{5}} \frac{d\theta_{5}}{d\theta_{5}} \right)$

$$\frac{d B_2}{d z} = \frac{\mu n I}{2R} \left(\frac{G_2 G_3}{G_3} \frac{d G_2}{G_3} - \frac{G_3 G_1}{G_3} \frac{d G_2}{G_3} \right)$$

CALCUL OU COURANT INDUIT

* On cherche A to:
$$\nabla_A A = B \nabla_A A = -\frac{\partial A}{\partial z} \vec{e}_1 + \frac{1}{2} \frac{\partial^2 A}{\partial z} \vec{e}_2$$

$$*\vec{j} = \vec{\lambda} = -\vec{\lambda} = -\vec{\lambda}$$

$$= -\frac{8r}{2} \frac{\partial B_2}{\partial \xi} \stackrel{?}{\epsilon_0}$$

$$\vec{z} = -\delta \mu n \vec{I}' + (\cos \alpha_1 - \cos \alpha_2) \vec{e_0}$$

EQUATION DU MOUVEMENT

$$\alpha_1 = \frac{\pi_2}{2} - Atan\left(\frac{3+L/2}{R}\right)$$

$$\alpha_2 = \frac{\pi_2}{2} - Atan\left(\frac{3-L/2}{R}\right)$$

9(5)



