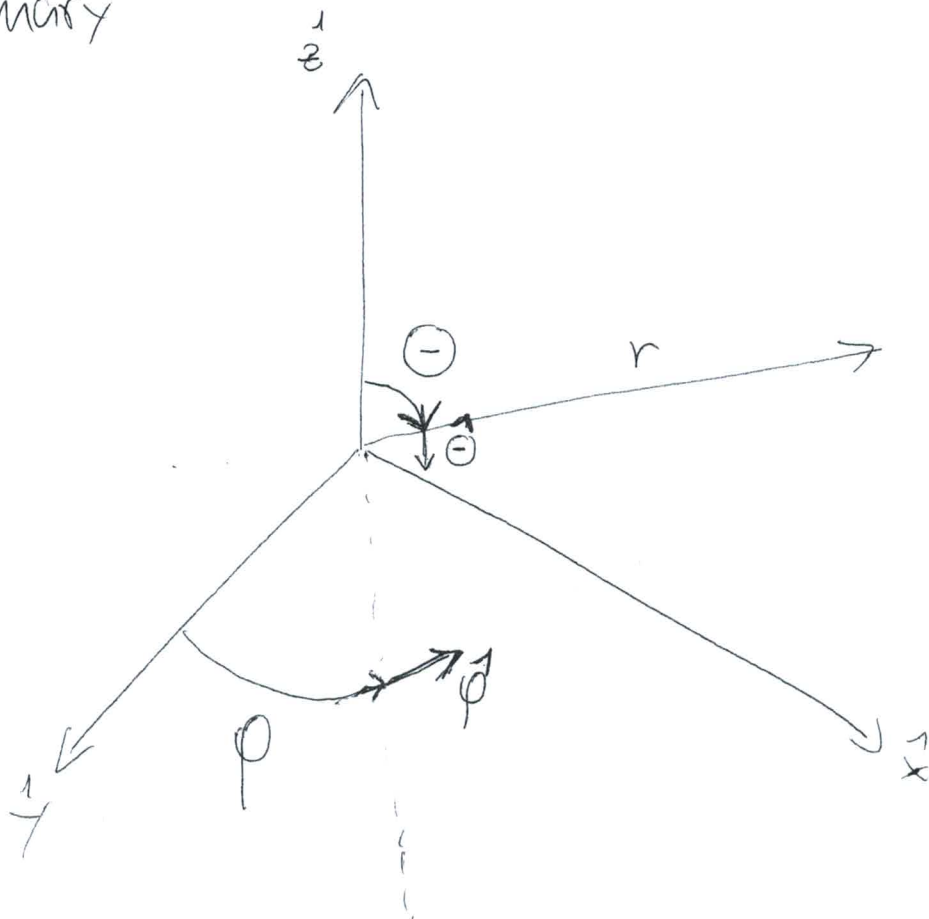


# Summary

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$$\text{at } d \ll \frac{c}{\omega} = \frac{\lambda}{2\pi} \ll r$$

$$\phi(r, \Theta, t) = \frac{\rho_0}{4\pi\epsilon_0} \frac{\cos\Theta}{r} \frac{\omega}{c} \sin\left(\omega\left(t + \frac{r}{c}\right)\right)$$

$$\bar{A}(r, \Theta, t) = -\frac{\mu_0}{4\pi} \rho_0 \frac{\omega}{r} \sin\left(\omega\left(t + \frac{r}{c}\right)\right)^{\frac{1}{2}}$$

