

$$\int d\vec{l} \cdot \vec{B} = \int d\vec{k} \cdot \vec{p} \cdot \vec{v}$$

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$$\int_{0}^{2\pi s} \vec{B} \cdot \vec{k} = 2\pi \int_{0}^{s} \vec{p} \cdot \vec{v} \cdot \vec{r} \, d\vec{r}$$

$$2\pi S \vec{B} = \pi \rho_{-} V S \vec{\rho}$$

$$\vec{E}_{1} = \vec{E}_{1} = \frac{\rho_{+} + \rho_{-}}{2\pi \ell_{b}} S \hat{S}$$

$$\vec{E}_{1} = \gamma \left(\vec{E}_{\perp} + C \vec{\beta} \times \hat{B} \right)$$

probably igeore

If q is moving with the negative charges and is under no radial force

$$\frac{4}{5} \frac{\sqrt{\beta}}{2} = \frac{4}{5} \frac{\sqrt{\beta}}{2\pi 20} = \frac{1}{2\pi 20$$

$$\begin{aligned}
& = 0, \left(1 - \frac{1}{2}(1 - \omega s^{2}\theta) \right) \\
& = 0, \left(-\frac{1}{2} + \frac{1}{2} \omega s^{2}\theta \right) \\
& = \frac{0}{2} \left(-1 + 3 \omega s^{2}\theta \right) = 0, P_{2}(\omega s \theta) \\
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b_=-3R4(50+2a_R)

Final p03

jeudi 29 avril 2021 08:33

If Dt 10 m/c, then the two events

can switch order in time.

Comparing the left figure to the right one, instead of having no electric dipole and having a magnetic moment, there is no magnetic moment and there is an electric dipole.

With this change, however, the volution remains the same, since the factor of a involved in this change gets concelled out.

The pattern of radiation charges, though.

In the left case, in is in the 2 direction, and in the right case is in the 4 direction.

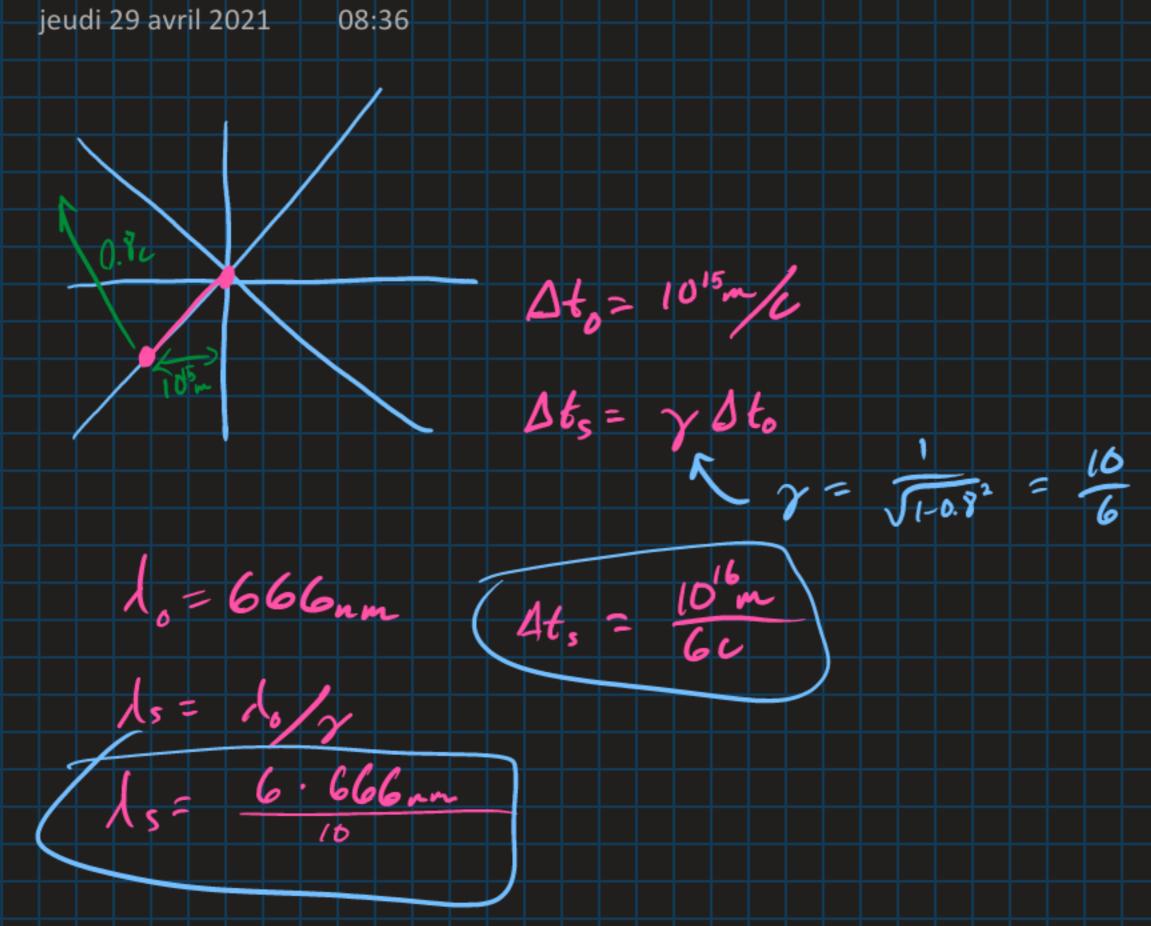
If the radiation is most intense purposalicular to these, then there is more energy radiated in the 2 direction for the right case than for the left case. However, in both cases, the radial direction is perpendicular so no change is seen there. In particular, the radiation in the 2 direction doesn't change.

total power radiated

 $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \cos(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \cos(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \cos(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \cos(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \cos(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \sin(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\ \sin(\theta) \end{array} \right)$ $\hat{p}(t) = p_0 \left(\begin{array}{c} \cos(\theta) \\$

Final p05

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Final p06

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08:36

Her it is possible. Propogating EM fields carry momentum. The momentum flux through the area, A, has to be now-zero, so the EM fields need to radiate energy out that area.

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