

12. **Spontaneous Emission in Interactions with a Resonant Radiation**

13. **Spontaneous Emission in Classical Particles, Classical Fields, and Quantum Particles**

14. **Define the terms: (a) classical and (b) quantum electrodynamics. Give examples for systems described by classical and quantum theory.**

Answer: See the theory.

$$\begin{aligned} \vec{A}_0 &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \\ \vec{A}_0 &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \end{aligned} \quad (1)$$

See the theory.

$$\begin{aligned} \vec{A}_0 &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \\ &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \end{aligned} \quad (2)$$

15. **What does "classical" in "classical electrodynamics" mean?**

$$\vec{A}_0 = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \quad (3)$$

Answer: "classical" means a system of particles, a system of fields, or a system of particles and fields. The system is described by classical mechanics, classical electrodynamics, or classical field theory.

$$\vec{A}_0 = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \quad (4)$$

Answer: "classical" means a system of particles, a system of fields, or a system of particles and fields.

Answer: The term "classical" means that the system is described by classical mechanics, classical electrodynamics, or classical field theory.

$$\vec{A}_0 = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \quad (5)$$

Answer: See the theory.

16. **Classical electrodynamics describes the interaction of light with matter. What is the physical mechanism of interaction of light with matter? Give examples for systems described by classical electrodynamics.**

Answer:

$$\begin{aligned} \vec{A}_0 &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \\ \vec{A}_0 &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \\ \vec{A}_0 &= \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \end{aligned} \quad (6)$$

17. **Define the term "classical electrodynamics" and give examples.**

Answer: See the theory.

Answer: See the theory.

$$\vec{A}_0 = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) = \frac{1}{\sqrt{2}} \left(\vec{A} + \frac{1}{c} \frac{\partial \phi}{\partial t} \right) \quad (7)$$

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H Kauffman



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