

$$(ii) E = \sqrt{(13.252)^2 + (8.19)^2} \times 10^{-14} \text{ J} = 15.579 \times 10^{-14} \text{ J}$$

$$E = \frac{E_0}{\sqrt{1 - v^2/c^2}} \quad \text{or} \quad 1 - \frac{v^2}{c^2} = \left(\frac{E_0}{E}\right)^2$$

$$v = \left[1 - \left(\frac{E_0}{E}\right)^2\right]^{1/2} c = \left[1 - \left(\frac{8.19}{15.579}\right)^2\right]^{1/2} (3 \times 10^8 \text{ m s}^{-1}) \\ = 0.851c$$

The group velocity will be the same as the particle velocity. Hence,

$$v_g = 0.851c$$

$$\text{Phase velocity } v_p = \frac{c^2}{v} = \frac{c}{0.851} = 1.175c$$

**2.39** The position of an electron is measured with an accuracy of  $10^{-6}$  m. Find the uncertainty in the electron's position after 1 s. Comment on the result.

*Solution.* When  $t = 0$ , the uncertainty in the electron's momentum is

$$\Delta p \geq \frac{h}{2\Delta x}$$

Since  $p = mv$ ,  $\Delta p = m \Delta v$ . Hence,

$$\Delta v \geq \frac{h}{2m\Delta x}$$

The uncertainty in the position of the electron at time  $t$  cannot be more than

$$(\Delta x)_t = t\Delta v \geq \frac{ht}{2m\Delta x} \\ = \frac{(1.054 \times 10^{-34} \text{ J s}) 1 \text{ s}}{2(9.1 \times 10^{-31} \text{ kg}) 10^{-6} \text{ m}} = 57.9 \text{ m}$$

The original wave packet has spread out to a much wider one. A large range of wave numbers must have been present to produce the narrow original wave group. The phase velocity of the component waves has varied with the wave number.

**2.40** If the total energy of a moving particle greatly exceeds its rest energy, show that its de Broglie wavelength is nearly the same as the wavelength of a photon with the same total energy.

*Solution.* Let the total energy be  $E$ . Then,

$$E^2 = c^2 p^2 + m_0^2 c^4 \cong c^2 p^2$$

$$p = \frac{E}{c}$$

$$\text{de Broglie wavelength } \lambda = \frac{h}{p} = \frac{hc}{E}$$

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web sep 8 2017 i use castrol edge syntec 0w40 it says european formula on the label any castrol at canadian tire that is labeled ll 01 should be fine if you re not doing track work i wouldn t bother with anything else and just stick with oem from the dealer or any oil you can find at the cheapest price that s labeled ll 01

*castrol lube cross reference* - Jan 28 2022

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