

Questions in Quantum Physics — Assignment

Name: Edward Van Wale, Group No. EE01, Date: 14/11/2020

(Submit your solutions to all four questions to your tutor in Week 12)

1. The visible intensity threshold of a night-vision device is $(4.0 \times 10^{-11} \text{ W/m}^2)$ at the wavelength of (600 nm) . If the light with this intensity and wavelength enters an eye and the pupil is open to its maximum diameter of 8.5 mm , how many photons per second enter the eye? (25 Marks)

$$I = 4 \times 10^{-11}$$

$$\begin{aligned} \text{Surface Area} &= \pi r^2 \\ &= \pi \times \left(\frac{8.5 \times 10^{-3}}{2}\right)^2 \\ &= 5.6745017 \times 10^{-6} \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Energy} &= \frac{hc}{\lambda} = \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{500 \times 10^{-9}} \\ &= 3.98 \times 10^{-19} \text{ J} \end{aligned}$$

$$\text{Power} = \text{Intensity} \times \text{Surface Area} \quad (25 \text{ Marks})$$

$$= 5.6745017 \times 10^{-6} \times 4 \times 10^{-11}$$

$$= 2.2698 \times 10^{-16} \text{ W}$$

$$\text{number of photons (s}^{-1}\text{)}$$

$$\Rightarrow \frac{2.2698 \times 10^{-16}}{3.98 \times 10^{-19}} = 5705.73 \text{ s}^{-1}$$

~~2.2698~~ 5705 photons per second

2. A 0.6 MeV photon is scattered by a free electron initially at rest. After scattering, the scattering angle of the scattered photon is 90° .

- (i) Determine the energy and the momentum of the scattered photon.
(ii) Determine the kinetic energy of the scattered electron.

(i) Compton Effect Equation: \rightarrow Scatter at 90° was normal

$$\lambda' - \lambda_0 = \frac{h}{mc} (1 - \cos \theta) \quad p = \frac{h}{\lambda}$$

$$\lambda' = \frac{h}{mc} (1 - \cos \theta) + \lambda_0$$

$$\theta = 90^\circ \quad \lambda_0 = \frac{hc}{E} = \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{0.6 \times 10^6 \times 1.6 \times 10^{19}}$$

$$\lambda' = \frac{h}{mc} + \lambda_0 = 2.426 \times 10^{-12} \text{ m}$$

$$\lambda' = \frac{6.63 \times 10^{-34}}{9.11 \times 10^{-31} \times 3 \times 10^8} + 2.426 \times 10^{-12}$$

$$= 4.4978 \times 10^{-12}$$

(25 marks)

$$p' = \frac{6.63 \times 10^{-34}}{4.4978 \times 10^{-12}}$$

$$= 1.474 \times 10^{-22} \text{ kg m s}^{-1}$$

$$E' = \frac{hc}{\lambda'}$$

$$= \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{4.4978 \times 10^{-12}}$$

$$= 4.42 \times 10^{-14} \text{ J}$$

$$= 276385 \text{ eV} = 0.276385 \text{ MeV}$$

(ii) Kinetic energy

$$= \text{Difference in energy} = 0.6 \text{ MeV} - 0.276385 \text{ MeV}$$

$$= 0.323615 \text{ MeV}$$

Physics 12 Assignment Quantum Physics

Minjie Lin



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College of Literature, Science, and the Arts University of Michigan. College of Literature, Science, and the Arts, 1929

Statistical Mechanics with Applications to Physics and Chemistry Richard Chace Tolman, 1927 **Grants and Awards for Fiscal Year...** National Science Foundation (U.S.), 1977 Murray Gell-Mann Murray Gell-Mann, Harald Fritzsch, 2010 Murray Gell Mann is one of the leading physicists of the world He was awarded the Nobel Prize in Physics in 1969 for his work on the classification and symmetries of elementary particles including the approximate SU 3 symmetry of hadrons His list of publications is impressive a number of his papers have become landmarks in physics In 1953 Gell Mann introduced the strangeness quantum number conserved by the strong and electromagnetic interactions but not by the weak interaction In 1954 he and F E Low proposed what was later called the renormalization group In 1958 he and R P Feynman wrote an important article on the V A theory of the weak interaction In 1961 and 1962 he described his ideas about the SU 3 symmetry of hadrons and its violation leading to the prediction of the particle In 1964 he proposed the quark picture of hadrons In 1971 he and H Fritzsch proposed the exactly conserved color quantum number and in 1972 they discussed what they later called quantum chromodynamics QCD the gauge theory of color These major publications and many others are collected in this volume providing physicists with easy access to much of Gell Mann s work Some of the articles are concerned with his recollections of the history of elementary particle physics in the third quarter of the twentieth century

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The Physics of the Developed Photographic Image Frank Elmore Ross, 1924 Science Abstracts , 1921

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