

Solutions to Problems in Goldstein,
Classical Mechanics, Second Edition

Henry Reid

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Chapter 1

Problem 1.1

A nucleus, originally at rest, decays radioactively by emitting an electron of momentum $1.73 \text{ MeV}/c$, and at right angles to the direction of the electron a neutrino with momentum $1.00 \text{ MeV}/c$. (The MeV (million electron volts) is a unit of energy, equal to nuclear physics, equal to $1.60 \times 10^{-13} \text{ erg}$. Correspondingly, MeV/c is a unit of linear momentum equal to $5.34 \times 10^{-22} \text{ gm-cm/sec.}$) In what direction does the nucleus recoil? What is its momentum in MeV/c? If the mass of the residual nucleus is $2.00 \times 10^{-26} \text{ gm}$, what is its kinetic energy, in electron volts?

Place the nucleus at the origin, and suppose the electron is emitted in the positive y direction, and the neutrino in the positive x direction. Then the resultant of the electron and neutrino momenta has magnitude

$$|p_{\text{recoil}}| = \sqrt{(1.73)^2 + 1^2} = 2 \text{ MeV}/c,$$

and its direction makes an angle

$$\theta = \tan^{-1} \frac{1.73}{1} = 60^\circ$$

with the x axis. The nucleus must acquire a momentum of equal magnitude and directed in the opposite direction. The kinetic energy of the nucleus is

$$T = \frac{p^2}{2m} = \frac{2 \text{ MeV}^2 c^{-2}}{2 \cdot 2.0 \cdot 10^{-26} \text{ gm}} = \frac{1.78 \cdot 10^{-27} \text{ gm}}{1 \text{ MeV } c^{-2}} = 0.1 \text{ ev}$$

This is much smaller than the nucleus rest energy of several hundred GeV, so the non-relativistic approximation is justified.

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