

Problem 1.4

$$m_{\Lambda} = \frac{1}{3} [2 (m_N + m_{\Xi}) - m_{\Sigma}] .$$

$$m_N = 938.9; \quad m_{\Xi} = 1318.1; \quad m_{\Sigma} = 1190.5.$$

$$\text{So } m_{\Lambda} = \frac{1}{3} [2 (2257.0) - 1190.5] = \boxed{1107.8 \text{ MeV}/c^2}.$$

$$\text{Observed } m_{\Lambda} = 1115.7 \text{ MeV}/c^2. \quad \boxed{\text{Off by } 0.7\%}.$$

Problem 1.5

$$m_{\eta}^2 = \frac{1}{3} [2 (m_K^2 + m_K^2) - m_{\pi}^2] = \frac{1}{3} (4m_K^2 - m_{\pi}^2) .$$

$$m_K = 495.67; \quad m_{\pi} = 138.04.$$

$$m_{\eta}^2 = \frac{1}{3} [9.637 \times 10^5] = 3.212 \times 10^5 \Rightarrow \boxed{m_{\eta} = 566.8 \text{ MeV}/c^2}.$$

$$\text{Actually } m_{\eta} = 547.3 \text{ MeV}/c^2. \quad \boxed{\text{Off by } 3.5\%}.$$

Problem 1.6

$$M_{\Delta} - M_{\Sigma^*} = 1232 - 1385 = -153$$

$$M_{\Sigma^*} - M_{\Xi^*} = 1385 - 1533 = -148. \quad \text{Average: } -151.$$

$$\therefore M_{\Omega} = M_{\Xi^*} + 151 = 1533 + 151 = \boxed{1684 \text{ MeV}/c^2}.$$

$$\text{Actually } M_{\Omega} = 1672 \text{ MeV}/c^2. \quad \boxed{\text{Off by } 0.7\%}.$$

Problem 1.7

$$\text{(a)} \quad \boxed{\Delta^- \longrightarrow n + \pi^- \text{ or } \Sigma^- + K^0}$$

$$\boxed{\Sigma^{*+} \longrightarrow p + \bar{K}^0; \quad \Sigma^+ + \pi^0; \quad \Sigma^+ + \eta; \quad \Sigma^0 + \pi^+; \quad \Lambda + \pi^+; \quad \Xi^0 + K^+}$$

$$\boxed{\Xi^{*-} \longrightarrow \Sigma^0 + K^-; \quad \Sigma^- + \bar{K}^0; \quad \Lambda + K^-; \quad \Xi^0 + \pi^-; \quad \Xi^- + \pi^0; \quad \Xi^- + \pi^+}$$

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