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2 1 Historical Introduction to the Elementary Particles. Problem 1. $m = 1/3 [2(m_N + m_e) - m_p]$. $m_N = 938.9$; $m_e = 1318.1$; $m_p = 1190.5$. $Som = 1/3 [2(2257.0) - 1190.5] = 1107.8 \text{ MeV}/c$ 2. Observed $m = 1115.7 \text{ MeV}/c$ 2. Off by 0.7%. Problem 1. $m^2 = 1/3 [2(m^2_K + m^2_K) - m^2_p] = 1/3 (4 m^2_K - m^2_p)$. $m_K = 495.67$; $m_p = 138.04$. $m^2 = 1/3 [9.637 \times 10^5]$

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