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2 1 Historical Introduction to the Elementary Particles. Problem 1. $m = 1/3 [2 (mN+m) - m]$. $mN=938.9$; $m = 1318.1$; $m = 1190.5$. $Som = 1/3 [2 (2257.0) - 1190.5] = 1107.8 \text{ MeV}/c$ 2. Observed $m = 1115.7 \text{ MeV}/c$ 2. Off by 0.7%. Problem 1. $m_2 = 1/3 [2 (m_2 K+m_2 K) - m_2] = 1/3 (4 m_2 K - m_2^2)$. $mK=495.67$; $m = 138.04$. $m_2 = 1/3 [9.637 \times 10^5]$

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