

## Introduction To Elementary Particles Solutions Manual Griffiths

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2 1 Historical Introduction to the Elementary Particles. Problem 1.  $m\Lambda = 1.3 [ 2 (mN + m\Xi) - m\Sigma]$ .  $mN = 938.9$ ;  $m\Xi = 1318.1$ ;  $m\Sigma = 1190.5$ .  $Som\Lambda = 1.3 [ 2 (2257.0) - 1190.5] = 1107.8$  MeV/c 2. Observed  $m\Lambda = 1115.7$  MeV/c 2. Off by 0.7%. Problem 1.  $m 2 \eta = 1.3 [2 (m 2 K + m 2 K) - m 2 \pi] = 1.3 (4 m 2 K - m 2 \pi)$ .  $mK = 495.67$ ;  $m\pi = 138.04$ .  $m 2 \eta = 1.3 [9.637 \times 105]$

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