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2 1 Historical Introduction to the Elementary Particles. Problem 1. $m_{\Lambda} = 1132$ [$2(m_N + m_{\Xi}) - m_{\Sigma}$]. $m_N = 938.9$;

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$m_{\Xi} = 1318.1$; $m_{\Sigma} = 1190.5$. $m_{\Lambda} = 1115.7$ MeV/c².
 $(2257.0) - 1190.5 = 1107.8$ MeV/c².
Observed $m_{\Lambda} = 1115.7$ MeV/c². Off by 0.7%.
Problem 1. $m_{\eta} = 548$ MeV/c².
 $(m_{K^+} + m_{K^-}) - m_{\pi^0} = 495.67 + 495.67 - 138.04 = 853.3$ MeV/c².
 $m_{K^+} = 495.67$; $m_{\pi^0} = 138.04$. $m_{\eta} = 548$ MeV/c².
[9.637 × 10⁵]

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sophisticated, phenomenologically too cluttered, insecure in its foundations, and uncertain in its future.

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