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2 1 Historical Introduction to the Elementary Particles. Problem 1. $m = 1.3 \times 10^{-2} (m_N + m_e) - m_e$. $m_N = 938.9$; $m_e = 1318.1$; $m = 1190.5$. $Som = 1.3 \times 10^{-2} (2257.0) - 1190.5 = 1107.8 \text{ MeV}/c^2$.

Observed $m = 1115.7 \text{ MeV}/c^2$. Off by 0.7%. Problem 1. $m^2 = 1.3 \times 10^{-2} (m^2_{K^+} + m^2_{K^-}) - m^2_e = 1.3 \times 10^{-2} (4 m^2_K - m^2_e)$. $m_K = 495.67$; $m_e = 138.04$. $m^2 = 1.3 \times 10^{-2} [9.637 \times 10^5]$

Solutions Manual Introduction to Elementary Particles ...

INTRODUCTION TO ELEMENTARY PARTICLE PHYSICS The Standard Model is the theory of the elementary building blocks of matter and of their forces. It is the most comprehensive physical theory ever developed, and has been experimentally tested with high accuracy. This textbook conveys the basic elements of the Standard Model using elementary

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CONTENTS Preface vii

Introduction 1 Elementary Particle Physics 1 How Do You Produce

Elementary Particles? 4 How Do You Detect Elementary Particles? 7

Units 8 References and Notes 10 1

Historical Introduction to the Elementary Particles 11 1 .I The

Classical Era (1897-1932) 1 1 1.2

The Photon (1900-1924) 14 1.3

Mesons (1934-1947) 17 1.4

Antiparticles (1930-1956) 18

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This introduction to the theory of elementary particles is intended primarily for advanced undergraduates who are majoring in physics. Most of my colleagues consider this subject inappropriate for such an audience—mathematically too sophisticated, phenomenologically too cluttered, insecure in its foundations, and uncertain in its future.

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