

QUARKS	<p>mass → $\approx 2.3 \text{ MeV}/c^2$</p> <p>charge → $2/3$</p> <p>spin → $1/2$</p> <p>u</p> <p>up</p>	<p>mass → $\approx 1.275 \text{ GeV}/c^2$</p> <p>charge → $2/3$</p> <p>spin → $1/2$</p> <p>c</p> <p>charm</p>	<p>mass → $\approx 173.07 \text{ GeV}/c^2$</p> <p>charge → $2/3$</p> <p>spin → $1/2$</p> <p>t</p> <p>top</p>	<p>mass → 0</p> <p>charge → 0</p> <p>spin → 1</p> <p>g</p> <p>gluon</p>	<p>mass → $\approx 126 \text{ GeV}/c^2$</p> <p>charge → 0</p> <p>spin → 0</p> <p>H</p> <p>Higgs boson</p>
	<p>mass → $\approx 4.8 \text{ MeV}/c^2$</p> <p>charge → $-1/3$</p> <p>spin → $1/2$</p> <p>d</p> <p>down</p>	<p>mass → $\approx 95 \text{ MeV}/c^2$</p> <p>charge → $-1/3$</p> <p>spin → $1/2$</p> <p>s</p> <p>strange</p>	<p>mass → $\approx 4.18 \text{ GeV}/c^2$</p> <p>charge → $-1/3$</p> <p>spin → $1/2$</p> <p>b</p> <p>bottom</p>	<p>mass → 0</p> <p>charge → 0</p> <p>spin → 1</p> <p>γ</p> <p>photon</p>	
	<p>mass → $0.511 \text{ MeV}/c^2$</p> <p>charge → -1</p> <p>spin → $1/2$</p> <p>e</p> <p>electron</p>	<p>mass → $105.7 \text{ MeV}/c^2$</p> <p>charge → -1</p> <p>spin → $1/2$</p> <p>μ</p> <p>muon</p>	<p>mass → $1.777 \text{ GeV}/c^2$</p> <p>charge → -1</p> <p>spin → $1/2$</p> <p>τ</p> <p>tau</p>	<p>mass → $91.2 \text{ GeV}/c^2$</p> <p>charge → 0</p> <p>spin → 1</p> <p>Z</p> <p>Z boson</p>	GAUGE BOSONS
	<p>mass → $< 2.2 \text{ eV}/c^2$</p> <p>charge → 0</p> <p>spin → $1/2$</p> <p>ν_e</p> <p>electron neutrino</p>	<p>mass → $< 0.17 \text{ MeV}/c^2$</p> <p>charge → 0</p> <p>spin → $1/2$</p> <p>ν_μ</p> <p>muon neutrino</p>	<p>mass → $< 15.5 \text{ MeV}/c^2$</p> <p>charge → 0</p> <p>spin → $1/2$</p> <p>ν_τ</p> <p>tau neutrino</p>	<p>mass → $80.4 \text{ GeV}/c^2$</p> <p>charge → ± 1</p> <p>spin → 1</p> <p>W</p> <p>W boson</p>	

Elementary Particle Physics

John Iliopoulos, Theodore N. Tomaras



Elementary Particle Physics:

Facts And Mysteries In Elementary Particle Physics (Revised Edition) Martinus J G Veltman, 2018-03-21 This book provides a comprehensive overview of modern particle physics accessible to anyone with a true passion for wanting to know how the universe works We are introduced to the known particles of the world we live in An elegant explanation of quantum mechanics and relativity paves the way for an understanding of the laws that govern particle physics These laws are put into action in the world of accelerators colliders and detectors found at institutions such as CERN and Fermilab that are in the forefront of technical innovation Real world and theory meet using Feynman diagrams to solve the problems of infinities and deduce the need for the Higgs boson Facts and Mysteries in Elementary Particle Physics offers an incredible insight from an eyewitness and participant in some of the greatest discoveries in 20th century science From Einstein's theory of relativity to the spectacular discovery of the Higgs particle this book will fascinate and educate anyone interested in the world of quarks leptons and gauge theories This book also contains many thumbnail sketches of particle physics personalities including contemporaries as seen through the eyes of the author Illustrated with pictures these candid sketches present rare perceptive views of the characters that populate the field The Chapter on Particle Theory in a pre publication was termed superbly lucid by David Miller in Nature Vol 396 17 Dec 1998 p 642 *Elementary Particles* Ian Simpson

Hughes, 1991-11-28 This is the third edition of a text that is already well established as one of the standard undergraduate books on the subject of elementary particle physics Professor Hughes has updated the whole text in line with current particle nomenclature and has added material to cover important new developments There is also a completely new major chapter on particle physics and cosmology an exciting subject that has become an area of increasing importance in recent years In this field much can be learned from the way the subject has developed and so where this helps its understanding a historical treatment is used Unlike other texts on this subject at all stages the author closely links theoretical developments to the relevant experimental measurements providing a sound foundation to what might otherwise be a rather abstract subject He also provides historical background where it will aid comprehension of the material *Elementary Particle Physics* I.R. Kenyon, 1987-10-31 The last few years have seen particular excitement in particle physics culminating in the experimental confirmation of the W and Z particles Ian Kenyon who was involved in the UA1 experiment at CERN that searched for the particles provides an introduction to particle physics and takes a refreshingly non historical approach The aim of the book has been to concentrate on the standard model and the gauge symmetries because these form the core of the subject Leptons quarks and forces are introduced at the beginning After this introduction the gauge theories are dealt with in order of increasing complexity Attention is then focussed on the hadrons deep inelastic scattering of hadrons then hadron spectroscopy and finally hadron interactions Current developments beyond the standard model appear in the last chapter

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Elementary-Particle Physics Committee on Elementary-Particle Physics, Board on Physics and Astronomy, Division on Engineering and Physical Sciences, National Research Council, 1998-04-15 Part of the Physics in a New Era series of assessments of the various branches of the field Elementary Particle Physics reviews progress in the field over the past 10 years and recommends actions needed to address the key questions that remain unanswered It explains in simple terms the present picture of how matter is constructed As physicists have probed ever deeper into the structure of matter they have begun to explore one of the most fundamental questions that one can ask about the universe What gives matter its mass A new international accelerator to be built at the European laboratory CERN will begin to explore some of the mechanisms proposed to give matter its heft The committee recommends full U S participation in this project as well as various other experiments and studies to be carried out now and in the longer term

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Elementary

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this explanation cannot account for the precocity with which scaling is being observed experimentally in energy regions in which resonances still provide prominent contributions to the final states 4

In Quest of the Quark Dr. Linda Bartrom-Olsen, 2013-12-26 *In Quest of the Quark* reinforces atomic theory for high school students and links it with Elementary Particle Physics in a structured way that encourages literacy without heavy mathematics by interrelating the particles which make up sub atomic particles At the beginning of the universe matter energy were one and then in the first few micro seconds of time they split apart or separated a process called symmetry splitting in Particle Physics or more commonly The Big Bang The particles of matter called fermions are the bricks of the universe and the bosons which transmit the forces of energy the mortar which binds them together This fundamental view of our time continuum is quite elegant in its organization and startling in its beauty as the worlds within worlds of fundamental particles are explored **Symmetry Principles Particle Physics** W. M. Gibson, B. R. Pollard, 1976-03-11 An understanding of the properties and interactions of the elementary particles is an essential prerequisite of research work in high energy physics Much progress in the subject has been achieved with the aid of symmetry principles In this 1980 book the concept of symmetry or invariance is employed as a unifying theme Using a careful explanation of the mathematical formalism and with many applications to particular cases the authors introduce the reader to the symmetry schemes which dominate the world of the particle physicist The presentation will also appeal to mathematicians and physicists in other fields who are interested in the applications of the general principles of symmetry After a brief survey of the particles and a review of the relevant quantum mechanics the principal symmetries are studied in turn Some technical points are relegated to appendices and the book contains extensive references Modern Elementary Particle Physics Gordon L. Kane, 1993-04-21 Revised and updated from the 1987 version Rather than giving a historical treatment the author explains the modern standard model and the gauge theory of the interactions of quarks and leptons via exchange of photons W and Z bosons and gluons **Elementary-Particle Physics** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Elementary-Particle Physics, 1998-05-01 Part of the Physics in a New Era series of assessments of the various branches of the field Elementary Particle Physics reviews progress in the field over the past 10 years and recommends actions needed to address the key questions that remain unanswered It explains in simple terms the present picture of how matter is constructed As physicists have probed ever deeper into the structure of matter they have begun to explore one of the most fundamental questions that one can ask about the universe What gives matter its mass A new international accelerator to be built at the European laboratory CERN will begin to explore some of the mechanisms proposed to give matter its heft The committee recommends full U S participation in this project as well as various other experiments and studies to be carried out now and in the longer term

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