

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 Theory

Ta-Pei Cheng, Ling-Fong Li



Elementary Particle Theory:

Introduction to Elementary Particle Theory Yu. V. Novozhilov, 2013-10-22 Introduction to Elementary Particle Theory details the fundamental concepts and basic principles of the theory of elementary particles The title emphasizes on the phenomenological foundations of relativistic theory and to the strong interactions from the S matrix standpoint The text first covers the basic description of elementary particles and then proceeds to tackling relativistic quantum mechanics and kinematics Next the selection deals with the problem of internal symmetry In the last part the title details the elements of dynamical theory The book will be of great use to students and researchers in the field of particle physics

Gauge Theory of Elementary Particle Physics Ta-Pei Cheng, Ling-Fong Li, 1994-08-02 This is a practical introduction to the principal ideas in gauge theory and their applications to elementary particle physics It explains technique and methodology with simple exposition backed up by many illustrative examples Derivations some of well known results are presented in sufficient detail to make the text accessible to readers entering the field for the first time The book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of Glashow Weinberg and Salam as well as the grand unification theory exemplified by the simplest SU 5 model Not intended as an exhaustive survey the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory Physicists with an interest in general aspects of gauge theory will also find the book highly useful

Elementary Particle Physics John Iliopoulos, Theodore N. Tomaras, 2021-10-25 Since the development of natural philosophy in Ancient Greece scientists have been concerned with determining the nature of matter s smallest constituents and the interactions among them This textbook examines the question of the microscopic composition of matter through an accessible introduction to what is now called The Physics of Elementary Particles In the last few decades elementary particle physics has undergone a period of transition culminating in the formulation of a new theoretical scheme known as The Standard Model which has profoundly changed our understanding of nature s fundamental forces Rooted in the experimental tradition this new vision is based on geometry and sees the composition of matter in terms of its accordance with certain geometrical principles This textbook presents and explains this modern viewpoint to a readership of well motivated undergraduate students by guiding the reader from the basics to the more advanced concepts of Gauge Symmetry Quantum Field Theory and the phenomenon of spontaneous symmetry breaking through concrete physical examples This engaging introduction to the theoretical advances and experimental discoveries of the last decades makes this fascinating subject accessible to undergraduate students and aims at motivating them to study it further

Quarks Y. Nambu, 1985 The book explains in a precise and complete manner how elementary particle physics has evolved over the past 50 years The historical development of the ideas that have shaped our thinking about the ultimate constituents of matter is traced out The author has been associated with some of the originators of elementary particle theory and has made significant contributions to the field Here

he gives a first person description of some of the main developments leading to our present view of the universe

Elementary Particle Theory Eugene Stefanovich, 2018 **Trends in Elementary Particle Theory** International Summer Institute on Theoretical Physics, Klaus Dietz, Horst Rollnik, 1975 **Facts And Mysteries In Elementary Particle Physics** Martinus J G Veltman, 2003-04-25 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 elusive 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 Particle Theory** Alan Douglas Martin, T. D. Spearman, 1970 *Introduction to Elementary Particles* David Griffiths, 2008-09-26 This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates Using a lively informal writing style the author strikes a balance between quantitative rigor and intuitive understanding The first chapter provides a detailed historical introduction to the subject Subsequent chapters offer a consistent and modern presentation covering the quark model Feynman diagrams quantum electrodynamics and gauge theories A clear introduction to the Feynman rules using a simple model helps readers learn the calculational techniques without the complications of spin And an accessible treatment of QED shows how to evaluate tree level diagrams Contains an abundance of worked examples and many end of chapter problems *Introduction to Elementary Particle Physics* Alessandro Bettini, 2014-02-13 The second edition of this successful textbook is fully updated to include the discovery of the Higgs boson and other recent developments providing undergraduate students with complete coverage of the basic elements of the standard model of particle physics for the first time Physics is emphasised over mathematical rigour making the material accessible to students with no previous knowledge of elementary particles Important experiments and the theory linked to them are highlighted helping students appreciate how key ideas were developed The chapter on neutrino physics has been completely revised and the final chapter summarises the limits of the standard model and introduces students to what lies beyond Over 250 problems including sixty that are new to this edition encourage students to apply the theory

themselves Partial solutions to selected problems appear in the book with full solutions and slides of all figures available at www.cambridge.org/9781107050402

Elementary Particles and Their Interactions Stephen P. Martin, James D. Wells, 2022-10-26 The Standard Model of elementary particle physics was tentatively outlined in the early 1970s The concepts of quarks leptons neutrinos gauge symmetries chiral interactions Higgs boson strong force weak force and electromagnetism were all put together to form a unifying theory of elementary particles Furthermore the model was developed within the context of relativistic quantum field theory making it compatible with all of the laws of Einstein's Special Relativity The successes of the Standard Model over the years have been tremendous and enduring leading up to the recent discovery and continuing study of the Higgs boson This book is a comprehensive and technical introduction to Standard Model physics Martin and Wells provide readers who have no prior knowledge of quantum field theory or particle physics a firm foundation into the fundamentals of both The emphasis is on obtaining practical knowledge of how to calculate cross sections and decay rates There is no better way to understand the necessary abstract knowledge and solidify its meaning than to learn how to apply it to the computation of observables that can be measured in a laboratory Beginning graduate students both experimental and theoretical and advanced undergraduate students interested in particle physics will find this to be an ideal one semester textbook to begin their technical learning of elementary particle physics

Topics in Elementary Particle Theory Peter Edward Kaus, 1955

Trends in Elementary Particle Theory H. Rollnik, K. Dietz, 2014-01-15

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Elementary Particle Theory Symposium on Elementary Particle Theory (1968, Aspenäsgråden), 1969

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