

Elementary particles

Leptons

Electron e^-

Electron neutrino ν_e

Muon μ

Muon neutrino ν_μ

Tau τ

Tau neutrino ν_τ

Quarks

Up u

Down d

Charm c

Strange s

Top t

Bottom b

Elementary bosons

Gluon g

Photon γ

Z boson Z^0

W^+ boson W^+

W^- boson W^-

Higgs boson H_0

Quarks Leptons As Elementary Particles

Harald Fritzsch



Quarks Leptons As Elementary Particles:

Modern Elementary Particle Physics Gordon Kane, 2017-02-09 This book is written for students and scientists wanting to learn about the Standard Model of particle physics Only an introductory course knowledge about quantum theory is needed The text provides a pedagogical description of the theory and incorporates the recent Higgs boson and top quark discoveries With its clear and engaging style this new edition retains its essential simplicity Long and detailed calculations are replaced by simple approximate ones It includes introductions to accelerators colliders and detectors and several main experimental tests of the Standard Model are explained Descriptions of some well motivated extensions of the Standard Model prepare the reader for new developments It emphasizes the concepts of gauge theories and Higgs physics electroweak unification and symmetry breaking and how force strengths vary with energy providing a solid foundation for those working in the field and for those who simply want to learn about the Standard Model

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

Quarks, Leptons & Gauge Fields Kerson Huang, 1992 This is perhaps the most up to date book on Modern Elementary Particle Physics The main content is an introduction to Yang Mills fields and the Standard Model of Particle Physics A concise introduction to quarks is provided with a discussion of the representations of SU 3 The Standard Model is presented in detail including such topics as the Kobayashi Maskawa matrix chiral symmetry breaking and the vacuum Theoretical topics of a more general nature include path integrals topological solitons renormalization group effective potentials the axial anomaly and lattice gauge theory This second edition which has been expanded incorporates the following new subjects Wilson s renormalization scheme and its relation to perturbative renormalization pitfalls in quantizing gauge fields such as the Gribov ambiguity the lattice as a consistent regularization Monte Carlo methods of solution and the issues folklores and scenarios of quark confinement More than a quarter of the book comprise of new materials This book may be used as a text for a one semester course on advanced quantum field theory or reference book for particle physicists

It's All Elementary Necia H. Apfel, 1985 Traces the search leading to the discovery of the smallest bits of matter pieces too small to be subdivided and discusses recent developments in the field of particle physics or study of the invisible microworld of elementary particles

Beyond the Nanoworld H. G. Dosch, 2008-01-11 Beyond the world of atoms at scales smaller than the smallest nuclei a new world comes into view populated by an array of colorful elementary particles strange and charmed quarks muons and neutrinos gluons and photons and many others all interacting in beautifully intricate patterns Beyond the Nanoworld tells the story of how this new real

Fundamental Particles Brian G. Duff, 1986 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

Leptons and Quarks L.B. Okun, 2013-05-10 This book comprises an introduction to the theory of the weak interaction of elementary particles The author outlines the current situation in weak interaction theory and discusses the prospects for the coming decade The reader is familiarized with simple theoretical techniques for the calculation of decay rates interaction cross sections and angular and spin correlations

Quarks, Leptons And Gauge Fields Kerson Huang, 1981-01-01 According to the current view the basic building blocks of matter are quarks and leptons which interact with one another through the intermediaries of Yang Mills gauge fields The forms of interactions are determined by the algebraic structure of certain internal symmetry groups The strong interactions are associated with the group $SU(3) \times U(1)$ This book is a concise introduction to the physical motivation behind these ideas and precise mathematical formulation thereof The goal of this book is to explain why and how the mathematical formalism helps us to understand the relevant observed phenomena This book serves as a text for a one semester course beyond quantum field theory The material was taken in part from such a course offered by the author at MIT

Quarks Harald Fritzsch, 1983-06-12 Offers a non technical introduction to particle physics the subnuclear structure of the atom and the research that led to the discovery of quarks the basic components of matter

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

Quarks, Leptons and The Big Bang Jonathan Allday, 2018-01-18 Quarks Leptons and The Big Bang is a clear readable and self contained introduction to particle physics and related areas of cosmology It bridges the gap between non technical popular accounts and textbooks for advanced students The book concentrates on presenting the subject from the modern perspective of quarks

leptons and the forces between them This book will be of interest to students teachers and general science readers interested in fundamental ideas of modern physics *Quarks, Leptons, and Beyond* H. Fritzsch, R.D. Peccei, H. Saller, H.

Wagner, 2013-06-29 The ASI Quarks Leptons and Beyond held in Munich from the 5th to the 16th of September 1983 was dedicated to the study of what we now believe are the fundamental building blocks of nature quarks and leptons The subject was approached on two levels On the one hand a thorough discussion was given of the status of our knowledge of quarks and leptons and their interactions both from an experimental and a theoretical standpoint On the other hand open problems presented by the so called standard model of quark and lepton interactions were explored along various ways that lead one beyond this framework One of the principal predictions of the standard model is that weak interactions are mediated by heavy W and Z vector bosons These particles were discovered in 1983 at CERN and their relevant properties were discussed at the ASI by C Rubbia Further theoretical predictions concerning these Z and W bosons yet to be checked by future experimentation were discussed by G Altarelli with a view of seeing where the standard model might fail and new physics ensue The strong interactions of quarks based on Quantum Chromodynamics QCD are presumed to cause the quarks to bind into hadrons Progress in attempts to calculate the observed hadronic spectrum ab initio starting from QCD and employing lattice methods were reviewed at the ASI by P Hasenfratz Elementary Particle Physics: Present And Future - Proceedings Of The International Workshop Jose W F Valle, Antonio Ferrer, 1996-04-25 This workshop held in Valencia following the

earlier meetings organized at UIMP in 1991 and 1993 was open to all who wished to attend and addressed the basic issues in elementary particle physics research for the coming decade with emphasis on the new physics topics pertaining to the electroweak sector supersymmetry and neutrino physics as well as the related experimentation at the new CERN accelerators LEP200 and LHC Although it is expected that most attendees are working in the field some time are devoted to reviews of basic results The topics covered are the standard model top and higgs physics neutrino physics astroparticle physics physics beyond the standard model grand unification and supersymmetry physics at LEP200 and LHC future perspectives Weak Interactions of Leptons and Quarks Eugene D. Commins, Philip H. Bucksbaum, 1983-07-29 In recent

years the study of weak interaction and its relationship with the other fundamental interactions of nature has progressed rapidly Weak interactions of leptons and quarks provides an up to date account of this continuing research The Introduction discusses early models and historical developments in the understanding of the weak force The authors then give a clear presentation of the modern theoretical basis of weak interactions going on to discuss recent advances in the field These include development of the electroweak gauge theory and the discovery of neutral currents and of a host of new particles There is also a chapter devoted entirely to neutrino astrophysics Its straightforward style and its emphasis on experimental results will make this book an excellent source for students problem sets are included at the end of each chapter and experimentalists in the field Physicists whose speciality lies outside the study of elementary particle physics will also find it

useful **A Tour of the Subatomic Zoo** Cindy Schwarz,1997 This popular book introduces the ideas terminology and techniques of high energy physics Insights into the structure of matter from the atom down to the quark are made accessible to readers who have no physics background With hardly a mathematical formula Ms Schwarz clearly explains the language and much of the substance of elementary particle physics FROM THE INTRODUCTION BY STANLEY GLASHOW HARVARD UNIVERSITY NOBEL LAUREATE **Elementary-Particle Physics** National Research Council,Division on Engineering and Physical Sciences,Commission on Physical Sciences, Mathematics, and Applications,Board on Physics and Astronomy,Physics Survey Committee,Elementary-Particle Physics Panel,1986-02-01 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 **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

Introduction to Elementary Particles David Griffiths,2020-12-18 Die Elementarteilchenphysik ist auf der ganzen Welt ein fester Bestandteil im Curriculum des Physikstudiums Umso wichtiger ist es daher dass auf diesem Gebiet bereits in den ersten Semestern ein solides Wissensfundament gelegt wird nicht zuletzt als Vorbereitung auf die Themenbereiche Hochenergie oder Kernphysik In diesen Band ist die gesamte Lehrerfahrung von David Griffiths eingeflossen eine begehrte

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Kisak,2015-10-07 In particle physics avour or avor refers to the species of an elementary particle The Standard Model counts six avours of quarks and six avours of leptons They are conventionally parameterized with avour quantum numbers that are assigned to all subatomic particles including composite ones For hadrons these quantum numbers depend on the numbers of constituent quarks of each particular avour In atomic physics the principal quantum number of an electron specifies the electron shell in which it resides which determines the energy level of the whole atom In an analogous way the five flavor quantum numbers of a quark specify which of six flavors u d s c b t it has and when these quarks are combined this results in different types of baryons and mesons with different masses electric charges and decay modes This book gives an overview of the category of flavor in particle physics

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