

STANDARD MODEL OF ELEMENTARY PARTICLES

QUARKS

UP

mass $2,3 \text{ MeV}/c^2$
charge $\frac{2}{3}$
spin $\frac{1}{2}$



CHARM

mass $1,275 \text{ GeV}/c^2$
charge $\frac{2}{3}$
spin $\frac{1}{2}$



TOP

mass $173,07 \text{ GeV}/c^2$
charge $\frac{2}{3}$
spin $\frac{1}{2}$



DOWN

mass $4,8 \text{ MeV}/c^2$
charge $-\frac{1}{3}$
spin $\frac{1}{2}$



STRANGE

mass $95 \text{ MeV}/c^2$
charge $-\frac{1}{3}$
spin $\frac{1}{2}$



BOTTOM

mass $4,18 \text{ GeV}/c^2$
charge $-\frac{1}{3}$
spin $\frac{1}{2}$



LEPTONS

ELECTRON

mass $0,511 \text{ MeV}/c^2$
charge -1
spin $\frac{1}{2}$



MUON

mass $105,7 \text{ MeV}/c^2$
charge -1
spin $\frac{1}{2}$



TAU

mass $1,777 \text{ GeV}/c^2$
charge -1
spin $\frac{1}{2}$



ELECTRON NEUTRINO

mass $<2,2 \text{ eV}/c^2$
charge 0
spin $\frac{1}{2}$



MUON NEUTRINO

mass $<0,17 \text{ MeV}/c^2$
charge 0
spin $\frac{1}{2}$



TAU NEUTRINO

mass $<15,5 \text{ MeV}/c^2$
charge 0
spin $\frac{1}{2}$



GLUON

0
0
1



HIGGS BOSON

mass $126 \text{ GeV}/c^2$
charge 0
spin 0



PHOTON

0
0
1



Z BOSON

mass $91,2 \text{ GeV}/c^2$
charge 0
spin 1



W BOSON

mass $80,4 \text{ GeV}/c^2$
charge ± 1
spin 1



GAUGE BOSONS

Physics Of Elementary Particles

David C. Cheng, Gerard K. O'Neill



Physics Of Elementary Particles:

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

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

Introduction to Nuclear and Particle Physics Ashok Das, Thomas Ferbel, 2003 The original edition of Introduction to Nuclear and Particle Physics was used with great success for single semester courses on nuclear and particle physics offered by American and Canadian universities at the undergraduate level It was also translated into German and used overseas

The Physics of Elementary Particles H. Murihead, 2017-01-19 The Physics of Elementary Particles details the physical principles that govern the behavior of elementary particles The title focuses on discussing the theoretical concepts of elementary particles The text first tackles the discovery and classification of the elementary particles and then proceeds to covering the intrinsic properties of the particles Chapter 3 talks about the preliminaries to a quantized field theory while Chapter 4 deals with the quantum theory of non interacting fields Next the selection details the symmetry properties of free fields The next five chapters are dedicated to covering the interaction of fields The remaining chapters discuss various forms of interaction such as electromagnetic weak and strong The book will be of great interest to physicists particularly those who specialize in quantum mechanics

Elementary Particle Physics John Iliopoulos, Theodore N. Tomaras, 2021 This engaging introduction to the latest theoretical advances and experimental discoveries in elementary particle physics culminating in the development of the Standard Model makes this fascinating subject accessible to

undergraduate students and aims at motivating them to study it further Elementary Particles Chen Ning Yang, 2015-12-08 Dr Yang reviews the history of our knowledge of the elementary particles and shows how theory and experiment interact to extend human knowledge Originally published in 1961 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Elementary Particle**

Physics David C. Cheng, Gerard K. O'Neill, 1979 **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 **An Introduction to Elementary Particles** W.S.C. Williams, 2012-12-02 An Introduction to Elementary Particles Second Edition aims to give an introduction to the theoretical methods and ideas used to describe how elementary particles behave as well as interpret some of the phenomena associated with it The book covers topics such as quantum mechanics bras kets vectors and linear operations angular momentum scattering and reaction theory the polarization and angularization of spin 0 spin 1 2 scattering and symmetry isotopic spin and hypercharge The book also discusses particles such as bosons baryons mesons kaons and hadrons as well as the interactions between them The text is recommended for physicists especially those who are practitioners and researchers in the fields of quantum physics and elementary particle physics

Physics of Elementary Particles John David Jackson, 2015-12-08 This is an introductory account of the physics of elementary particles and their interactions with a minimum of formal apparatus and an ease of reading which at present is found in few other books in physics It is designed for graduate students and for physicists not specializing in the field The various phenomena are interpreted and correlated largely by means of elementary theoretical arguments needing little background beyond a first course in quantum mechanics Numerous references to the original literature will allow the reader to probe more deeply into the topics discussed Selected topics include scattering photoproduction K mesons and hyperons theoretical models weak decay processes and analysis of recent experiments on

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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 Particles** Harald Fritzsch, 2005 This highly readable book uncovers the mysteries of the physics

of elementary particles for a broad audience From the familiar notions of atoms and molecules to the complex ideas of the grand unification of all the basic forces this book allows the interested lay public to appreciate the fascinating building blocks of matter that make up our universe The Physics of Elementary Particles L. J. Tassie, 1973 **The Physics of**

Elementary Particles Hugh Muirhead, 1965 *Modern Elementary Particle Physics* Gordon Kane, 2017-03-08 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

Elementary Particles and Their Interactions Quang Ho-Kim, Xuan-Yem Pham, 2013-03-09 *Elementary Particles and Their Interactions Concepts and Phenomena* presents a well written and thorough introduction to this field at the advanced undergraduate and graduate level Students familiar with quantum mechanics special relativity and classical electrodynamics will find easy access to modern particle physics and a rich source of illustrative examples figures tables and problems with selected solutions Further references guide the reader through the literature This text should become a standard reference to particle physics and will be useful to students and lecturers alike *Introduction to Elementary Particles* David Griffiths, 1987-03-15 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

Elementary Particles Herwig Schopper, 2008-10-14 The Landolt B rnstein Data Collection has become known as a compilation of numerical data and functional relations However already in the past some volumes have been published which went beyond that objective and provided a more comprehensive summary of a special field In agreement with the Editor in Chief Prof Werner Martienssen Volume I 21 will be a further step in extending the purpose and in modernizing the Landoldt B rnstein Series This volume will provide in the style of an encyclopedia a summary of the results of particle physics and the methods and instruments to obtain this information Subvolume I 21A reports on the present state of theoretical and experimental knowledge in particle physics In Subvolume I 21B detectors and data handling will be covered and Subvolume I 21C will be devoted to the technology of accelerators and colliders The time to give a summary of elementary particle physics seems to be appropriate The results of the electron positron collider LEP at CERN have been fully analyzed and also the data of the other facilities in operation e g TEVATRON and Beauty factories have achieved a certain maturity It will take several years before new data from the LHC starting operation in 2008 will become available to indicate new ways beyond the well established Standard Model of Particle Physics Of course results from n accelerator physics continue to come in and the most recent results are reported Since particle physics and cosmology become ever more intertwined one chapter is devoted to this topic

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