

# STANDARD MODEL OF ELEMENTARY PARTICLES

## QUARKS

<b>UP</b> mass $2,3 \text{ MeV}/c^2$ charge $\frac{2}{3}$ spin $\frac{1}{2}$ 	<b>CHARM</b> mass $1,275 \text{ GeV}/c^2$ charge $\frac{2}{3}$ spin $\frac{1}{2}$ 	<b>TOP</b> mass $173,07 \text{ GeV}/c^2$ charge $\frac{2}{3}$ spin $\frac{1}{2}$ 
<b>DOWN</b> mass $4,8 \text{ MeV}/c^2$ charge $-\frac{1}{3}$ spin $\frac{1}{2}$ 	<b>STRANGE</b> mass $95 \text{ MeV}/c^2$ charge $-\frac{1}{3}$ spin $\frac{1}{2}$ 	<b>BOTTOM</b> mass $4,18 \text{ GeV}/c^2$ charge $-\frac{1}{3}$ spin $\frac{1}{2}$ 

## LEPTONS

<b>ELECTRON</b> mass $0,511 \text{ MeV}/c^2$ charge $-1$ spin $\frac{1}{2}$ 	<b>MUON</b> mass $105,7 \text{ MeV}/c^2$ charge $-1$ spin $\frac{1}{2}$ 	<b>TAU</b> mass $1,777 \text{ GeV}/c^2$ charge $-1$ spin $\frac{1}{2}$ 
<b>ELECTRON NEUTRINO</b> mass $<2,2 \text{ eV}/c^2$ charge $0$ spin $\frac{1}{2}$ 	<b>MUON NEUTRINO</b> mass $<0,17 \text{ MeV}/c^2$ charge $0$ spin $\frac{1}{2}$ 	<b>TAU NEUTRINO</b> mass $<15,5 \text{ MeV}/c^2$ charge $0$ spin $\frac{1}{2}$ 

## GLUON

0  
0  
1



## HIGGS BOSON

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



## PHOTON

0  
0  
1



## GAUGE BOSONS

## Z BOSON

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



## W BOSON

mass  $80,4 \text{ GeV}/c^2$   
 $\pm 1$   
1



# Elementary Particle High Energy Physic

**Committee on Elementary-Particle  
Physics, Board on Physics and  
Astronomy, Division on Engineering  
and Physical Sciences, National  
Research Council**

## **Elementary Particle High Energy Physic:**

**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 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 **Elementary Particle Physics in a Nutshell** Christopher G. Tully, 2011-10-10 An introduction to high energy physics that prepares students to understand the experimental frontier The new experiments underway at the Large Hadron Collider at CERN in Switzerland may significantly change our understanding of elementary particle physics and indeed the universe This textbook provides a cutting edge introduction to the field preparing first year graduate students and advanced undergraduates to understand and work in LHC physics at the dawn of what promises to be an era of experimental and theoretical breakthroughs Christopher Tully an active participant in the work at the LHC explains some of the most recent experiments in the field But this book which emerged from a course at Princeton University also provides a comprehensive understanding of the subject It explains every elementary particle physics process whether it concerns nonaccelerator experiments particle astrophysics or the description of the early universe as a gauge interaction coupled to the known building blocks of matter Designed for a one semester course that is complementary to a course in quantum field theory the book gives special attention to high energy collider physics and includes a detailed discussion of the state of the search for the Higgs boson Introduces elementary particle processes relevant to astrophysics collider physics and the physics of the

early universe Covers experimental methods detectors and measurements Features a detailed discussion of the Higgs boson search Includes many challenging exercises Professors A supplementary Instructor's Manual which provides solutions for Chapters 1-3 of the textbook is available as a PDF It is restricted to teachers using the text in courses To obtain a copy please email your request to Ingrid\_Gnerlich at press.princeton.edu **Introduction to High Energy Physics** Donald H.

Perkins, 2000-04-13 This highly regarded text provides a comprehensive introduction to modern particle physics Extensively rewritten and updated this 4th edition includes developments in elementary particle physics as well as its connections with cosmology and astrophysics As in previous editions the balance between experiment and theory is continually emphasised The stress is on the phenomenological approach and basic theoretical concepts rather than rigorous mathematical detail Short descriptions are given of some of the key experiments in the field and how they have influenced our thinking Although most of the material is presented in the context of the Standard Model of quarks and leptons the shortcomings of this model and new physics beyond its compass such as supersymmetry neutrino mass and oscillations GUTs and superstrings are also discussed The text includes many problems and a detailed and annotated further reading list Elementary Particles:

Frontiers of High Energy Physics Gerald L. Wick, 1972 **The Origin of Mass** John Iliopoulos, 2017-09-22 The discovery of a new elementary particle at the Large Hadron Collider at CERN in 2012 made headlines in world media Since we already know of a large number of elementary particles why did this latest discovery generate so much excitement This small book reveals that this particle provides the key to understanding one of the most extraordinary phenomena which occurred in the early Universe It introduces the mechanism that made possible within tiny fractions of a second after the Big Bang the generation of massive particles The Origin of Mass is a guided tour of cosmic evolution from the Big Bang to the elementary particles we study in our accelerators today The guiding principle of this book is a concept of symmetry which in a profound and fascinating way seems to determine the structure of the Universe 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 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

*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 HIGH-ENERGY PHYSICS AND ELEMENTARY PARTICLES ,1965 **Ever Smaller** Antonio Ereditato,2020-10-20 Ideas theories experiments and unanswered questions in particle physics explained with anecdotes for the general reader The elementary particles of matter hold the secrets of Nature together with the fundamental forces In **Ever Smaller** neutrino physicist Antonito Ereditato describes the amazing discoveries of the particle revolution explaining ideas theories experiments and unanswered questions in particle physics in a way that is accessible and enjoyable for the general reader Ereditato shows us that physics is not the exclusive territory of scientists in white lab coats exclaiming Eureka but that its revelations can be appreciated by any reader curious about the mysteries of the universe **Introduction To High Energy Physics: Particle Physics For The Beginner** Lee G Pondrom,2022-04-08 Elementary particle physics is a mature subject with a wide variety of topics Size considerations require any text to make choices in the subject matter and such choices are to a large extent a matter of taste Each topic in this text has been selected for its accessibility to as wide an audience of interested readers as possible without any compromise in mathematical sophistication There are of necessity a lot of formulas but every one is derived and an effort has been made to explain the various steps and clever tricks and how to avoid pitfalls The text is supplemented by exercises at the end of each chapter The reader is urged to do the exercises that are designed to increase one's skills in the material The goal of the book is to bring to undergraduates an ability to enjoy this interesting subject **Report on High Energy Physics, June 1969** U.S. Atomic Energy Commission. High Energy Physics Advisory Panel,1969 Concepts of Elementary Particle Physics Michael Edward Peskin,2019 This particle physics textbook for senior undergraduates and early graduates explains the Standard Model of particle physics both the theory and its experimental basis The point of view is thoroughly modern Theory relevant to the experiments is developed in detail but in a simplified way without needing full knowledge of quantum field theory Data for Elementary-particle Physics Lawrence

Radiation Laboratory,1963      **Elementary Particle Physics** Otto Nachtmann,2012-12-06 This book grew how could it be otherwise out of a series of lectures which the author held at the University of Heidelberg The purpose of these lectures was to give an introduction to the phenomenology of elementary particles for students both of theoretical and experimental orientation With the present book the author has set himself the same aim The reader is assumed to be familiar with ordinary nonrelativistic quantum mechanics as presented e g in the following books Quantum Mechanics by L 1 Schiff McGraw Hill New York 1955 Quantum Mechanics Vol I by K Gottfried W A Benjamin Reading Ma 1966 The setup of the present book is as follows In the first part we present some basic general principles and concepts which are used in elementary particle physics The reader is supposed to learn here the language of particle physics An introductory chapter deals with special relativity of such fundamental importance for particle physics which most of the time is high energy i e highly relativistic physics Further chapters of this first part deal with the Dirac equation with the theory of quantized fields and with the general definitions of the scattering and transition matrices and the cross sections      *Elementary-Particle Physics* National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Elementary-Particle Physics, 1998-04-01 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      Old and New Problems in Elementary Particles G Puppi, 2012-12-02 Old and New Problems in Elementary Particles provides information pertinent to elementary particle physics This book examines the types of problems facing high energy physicists Comprised of 20 chapters this book starts with an overview of the fundamental properties of Dirac poles with emphasis on the spin the electric dipole moment and the mass This text then examines the applications of supergain antenna which is an interesting cautionary model against an oversimplified application of the notion of indeterminacy Other chapters explain the uninhibited adoption of a uniform and natural experimental definition of resonance or particle with respect to hadrons This book illustrates as well how insight into strong interaction dynamics may be improved by a precise definition of the particle resonance concept The final chapter deals with the derivation of the Alder Weisberger relation which links the ratio of the two weak coupling constants of the nucleon with an integral over pion absorption cross sections Physicists and researchers will find this book useful      Big and the Small G. Venkataraman, 2002-03      **Spin in Particle Physics** Elliot Leader, 2023-07-27 A thorough and pedagogical treatment of spin in elementary particle physics for graduates and

researchers

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## **Table of Contents Elementary Particle High Energy Physic**

1. Understanding the eBook Elementary Particle High Energy Physic
  - The Rise of Digital Reading Elementary Particle High Energy Physic
  - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Particle High Energy Physic
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Elementary Particle High Energy Physic
  - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Particle High Energy Physic
  - Personalized Recommendations
  - Elementary Particle High Energy Physic User Reviews and Ratings
  - Elementary Particle High Energy Physic and Bestseller Lists
5. Accessing Elementary Particle High Energy Physic Free and Paid eBooks
  - Elementary Particle High Energy Physic Public Domain eBooks
  - Elementary Particle High Energy Physic eBook Subscription Services
  - Elementary Particle High Energy Physic Budget-Friendly Options

6. Navigating Elementary Particle High Energy Physic eBook Formats
  - ePub, PDF, MOBI, and More
  - Elementary Particle High Energy Physic Compatibility with Devices
  - Elementary Particle High Energy Physic Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Elementary Particle High Energy Physic
  - Highlighting and Note-Taking Elementary Particle High Energy Physic
  - Interactive Elements Elementary Particle High Energy Physic
8. Staying Engaged with Elementary Particle High Energy Physic
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Elementary Particle High Energy Physic
9. Balancing eBooks and Physical Books Elementary Particle High Energy Physic
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Elementary Particle High Energy Physic
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Elementary Particle High Energy Physic
  - Setting Reading Goals Elementary Particle High Energy Physic
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elementary Particle High Energy Physic
  - Fact-Checking eBook Content of Elementary Particle High Energy Physic
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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scenario drivingscenario sampletime 0 1 stoptime 60