

Elementary Particles

An elementary particle does not consist of smaller subparticles.

		three generations of matter (fermions)			interactions / force carriers (bosons)	
		I	II	III		
<p>Quarks</p> <ul style="list-style-type: none"> • half-integer spin • all 4 interactions <p>Fermions</p> <p>Quarks</p>	mass	$\approx 2.2 \text{ MeV}/c^2$	$\approx 1.28 \text{ GeV}/c^2$	$\approx 173.1 \text{ GeV}/c^2$	0	$\approx 125.11 \text{ GeV}/c^2$
	charge	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	0	0
	spin	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	0
		u up	c charm	t top	g gluon	H higgs
		$\approx 4.7 \text{ MeV}/c^2$	$\approx 96 \text{ MeV}/c^2$	$\approx 4.18 \text{ GeV}/c^2$	0	
		$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$	0	
		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	
		d down	s strange	b bottom	\gamma photon	
		$\approx 0.511 \text{ MeV}/c^2$	$\approx 205.66 \text{ MeV}/c^2$	$\approx 1.7768 \text{ GeV}/c^2$	$\approx 91.18 \text{ GeV}/c^2$	
		-1	-1	-1	0	
		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	
		e electron	\mu muon	\tau tau	Z Z boson	
		$\approx 1.0 \text{ eV}/c^2$	$\approx 0.17 \text{ MeV}/c^2$	$\approx 18.2 \text{ MeV}/c^2$	$\approx 80.360 \text{ GeV}/c^2$	
		0	0	0	-1	
		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	
		\nu_e electron neutrino	\nu_\mu muon neutrino	\nu_\tau tau neutrino	W W boson	

Bosons

- integer spin
- all 4 interactions

GAUGE BOSONS
VECTOR BOSONS

SCALAR BOSONS

World Of Elementary Particles

Ford



World Of Elementary Particles:

The World of Elementary Particles Kenneth W. Ford,1963 **The World of Elementary Particles** Kenneth William Ford,1965 **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 *World of Elementary Particles* Ford,1963-06-01 *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

Seven Journeys to the World of Elementary Particles Igor' Iŭr'evich Kobzarev,1988-01-01 **A Brief Journey to the World of Elementary Particles** Nibin Varughese,Saiesh Naik,Shreya Naik Gaonkar,Walley Jaques,Angelo George,2017-11-26 Have you ever wondered what things in the universe is made up of Atoms protons neutrons or things smaller than them The answer is elementary particles This book is a short journey to the world of these particles This book takes the reader step by step through atom nucleus and then to the world of particles such as protons and neutrons and finally to the elementary particles The nature and behaviour of the elementary particles are explained using Feynman diagrams in light of Standard Model of Particle Physics Thus this book serves as a brief introduction to particle physics explained in simple language **Microcosmos** Harald Fritzsch,2014 Matter is composed of quarks and electrons The forces between quarks are generated by exchanges of gluons and are so strong that they result in the confinement of quarks in atomic nuclei whereas the forces between electrons and atomic nuclei are generated by exchanges of photons and the forces between quarks and electrons or any other leptons are generated by exchanges of weak bosons Back cover **From Atoms to Quarks** James Trefil,1980 Equips the general reader having only basic mathematical skills with an understanding of the evolution and present state of particle physics *Seven Journes to the World of Elementary Particles* I. N. Arutjunjan,I.

Kobzarev,1988 **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 **At the Root of Things** Palash Baran

Pal,2014-08-27 At the Root of Things The Subatomic World is a journey into the world of elementary particles the basic constituents of all matter in the universe and the nature of the interactions among them The book begins with a summary of pre quantum physics and later tackles quantum physics which is essential for the study of elementary particles It is written in a non technical way so that anyone interested about these issues will be able to read it All and all this is a book that not only helps outsiders understand the subject in a non mathematical manner it also inspires them to join the exciting endeavor It contains many line diagrams to illustrate the ideas and a few mathematical equations like $E = mc^2$ *Introduction to Nuclear and Particle Physics* Ashok Das,2003 Annotation Readership Advanced undergraduates and researchers in nuclear and particle physics

The World of Particles Pradyumn,2020-08-10 Written for readers who would like to explore the world of particles and understand the ultimate theory of the universe with minimal mathematical understanding this book describes the building blocks of our universe and the associated theories The book welcomes technical as well as non technical readers to enjoy and explore the world of particles The World of Particles provides the recipe to build our universe It describes the contemporary efforts by the scientists to unveil Physics beyond the Standard Model It describes the Classical Field Theory and Quantum Field Theory QFT which are the modern developments in Particle Physics It builds a strong base of various field theories like Quantum Electrodynamics QED Quantum Chromodynamics QCD Quantum Flavordynamics QFD and Quantum Gravity It introduces the reader with Feynman diagrams CPT symmetry Higgs mechanism String Theory Loop Quantum Gravity and helps to build a foundation to understand the unification of forces and the ultimate theory of the universe i e the Theory of Everything *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

Facts and Mysteries in Elementary Particle Physics Martinus Veltman,2003 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

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

Elementary Particles Harald Fritzsch,2005-01-01 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 Beginning with a description of the quantum nature of atoms and particles readers are introduced to the elementary constituents of atomic nuclei quarks The book goes on to consider all of the important ideas in particle physics quantum electrodynamics and quantum chromodynamics the theory of strong interactions the gauge theories of the weak and electromagnetic interactions as well as the problem of mass generation To conclude the book the ideas of grand unification are described and finally some applications to astrophysics are discussed

Publisher **Facts and Mysteries in Elementary Particle Physics (Revised Edition)**. Martinus J. G. Veltman,2018

High-Energy Astrophysics Jorge Ernesto Horvath,2022-02-01 This textbook is designed to serve as a link between the

basic disciplines of physics and the frontier topics within high energy astrophysics aiming at a level of difficulty congruent with that of other physics topics studied at undergraduate level Therefore this preparatory and introductory text serves as a gateway to a more detailed study of many of the most interesting and complex phenomena being investigated by contemporary astrophysics Among others these include the evolution of stars supernovae neutron stars black holes solar neutrinos and importantly the exciting new field of gravitational wave astronomy The book is supplemented by a collection of problems with which students can test their understanding of the material presented

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