FUNDAMENTAL PARTICLES





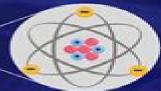
Matter

(All things are composed of atoms)



Molecule

(Matter is composed of molecules, which are groups of two or more atoms bonded together)



Attorn

(Electrons orbit the positively charged nucleus of an atom)





Mucleus

Fundamental particles are classified into "Bosons" and "Fermions" based on their spin.

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BOSONS



Particles with whole number spins (0, 1, 2, etc.). They are energy and force carriers throughout the universe. They include photons (light), gluons (particles that act as force carriers in the nucleus), the Higgs boson, and the W and Z bosons.



Photons are massless, charge-less particles of light that travel at the speed of light.

Photons



the strong nuclear force, holding quarks together in protons and neutrons. They have color charges (red, green, blue) and are studied in high-energy environments like the Relativistic Heavy Ion Collider (RHIC).







Bosons

Gluons are charge-less particles that mediate

The Higgs boson, linked to the Higgs field, gives mass to particles like electrons and quarks. Mass determines a particle's resistance to force: Higgs Boson Photons, which carry the electromagnetic force, have no mass.

> W and Z bosons are elementary particles with spin 0 or 1, discovered in 1983. They mediate the weak force, which is weaker than the strong force. There are two W bosons (W+ and its antiparticle W-), while Z bosons are their own antiparticles.



Leptons Quarks







OPME IAS

FERMIONS

Particles with half-number spins (1/2, 3/2, etc.). They include protons, neutrons, electrons, neutrinos, and quarks.



- Leptons are fundamental particles. that do not feel the strong nuclear
- Electrons, commonly found in atoms, are the most well-known leptons.
- There are six types of leptons:



Electron









Manufacture. **Heatring**



- Neutrinos are tiny, neutral particles with nearly undetectable mass. They are the most abundant massive particles
- in the universe. Produced during nuclear reactions in stars.

Mountriese

- reactors, and particle accelerators. Sananas emit neutrinos due to their natural
- radioactivity.







etiles et com -Proton

2

- Quarks are the building blocks of protons and neutrons. They combine to form protons and neutrons.
- Protons and neutrons are not fundamental particles because they are composed of smaller particles called quarks.
- There are six types (flavors) of quarks:













FORCE (Bosons)

Three

C ermions)





Z Boson

Gauge Bosons

W Boson



Scalar Besons

Charm.

Stronge

The Particles Of The Universe

Jeff Yee

The Particles Of The Universe:

The Particles of the Universe Jeff Yee,2012-03-28 The universe is simply energy Everything around us including matter is energy A deep look into the mysteries of the subatomic world the particles that make up the atom provides answers to basic questions about how the universe works To solve the future of mankind s energy needs we need to understand the basic building blocks of the universe including the atom and its parts By exploring the subatomic world well find more answers to our questions about time forces like gravity and the matter that surrounds us More importantly well find new ways to tap into the energy that exists around us to power our growing needs In a new branch of particle physics where tiny particles are thought of as energy waves we find new answers that may help us in our quest to find alternative energy sources January 2018 Update This first book in The Particles of the Universe series serves as a call to action to renew support for the aether and it summarizes works from physicists working on the wave structure of matter The second book in the series is now available The Particles of the Universe 2 Disrupted proving elements of the original hypothesis of matter s wave properties The proof includes calculations of atomic orbital distances and photon energies for the first twenty atomic elements particle mass calculations derivations of fundamental physical constants and derivations of existing energy and force equations quantum and classical from one base equation Subscribe to the YouTube Channel for videos at https www youtube com c energywavetheoryFurther details and downloads on the web site at http www energywavetheory com

Particles and the Universe Stephan Narison, 2015-11-27 This book aims to present the history and developments of particle physics from the introduction of the notion of particles by the Ionian school until the discovery of the Higgs boson at LHC in 2012 Neutrino experiments and particle accelerators where different particles have been discovered are reviewed In particular details about the CERN accelerators are presented This book also discusses the future developments of the field and the work to popularize high energy physics A short presentation of some features of astrophysics and its connection to particle physics is also included At the end of the book some useful tools in the research of particle physics are given for the The Particle Odyssey Frank Close, Michael Marten, Christine Sutton, 2004-08-26 During the 20th advanced readers century scientists discovered what the Universe is made of as the 21st century begins they are preparing experiments to find out how it came to be like this This great adventure which will involve a metaphorical journey back in time to within a billionth of a second of the Big Bang is the latest stage in the quest to understand the nature of the matter that makes our Universe and the forces that govern it The Particle Odyssey takes the reader on a spectacularly illustrated journey to the heart of matter In clear non technical language the authors describe the key experiments and fundamental discoveries which have led to our current understanding of the origins and nature of the material universe In this fascinating book you will find individual portraits of all the major subatomic particles from the electron to the top quark The authors describe the history of experimental particle physics its origins in the discovery of X rays in 1895 the dissection of the atom by Rutherford and

others the unexpected revelations of the cosmic rays the explosion of new particles in the 1950s and 60s the discovery of quarks and the rise of the standard model in the last part of the 20th century And they also look at the great challenges that face physicists today where did antimatter go what is dark matter can there be a theory of everything and the experiments they are devising to explore them The Particle Odyssey brings together and presents with style over 100 of the best images of particle events mysterious abstract beautiful pictures of the tracks of subatomic particles as they speed curve dance or explode through cloud and bubble chambers stacks of photographic emulsion and the giant multi element detectors of modern experiments Here are spiralling electrons the tell tale vees of strange particles matter and antimatter born from raw energy energetic jets of particles spraying out from the decay points of guarks and gluons A further 250 pictures many taken specially for this book illustrate the laboratories experiments and personalities of over a century of particle physics This superb book is a testament to the work of big science and one of the great detective stories of our age Shouvik Sarkar, 2023-10-20 The Cosmos is a scientific book explaining the various phenomena of the Cosmos It specifically empathizes on quantum physics to trying to explain the cosmos its creation and various phenomena of it including its end and intelligent beings This would be a good read to know about the reality of the Cosmos and dive deep into it s secrets What Is the World Stoyan Kurtev, 2013-08-23 What is the world is the deepest question one could ask Its answer requires an understanding of both matter and mind and also of the relationship between them This book offers a new approach to answering this question based on the concept of representation and resulting in an identity theory regarding the relationship between mind and matter In doing that it offers a new way of thinking about the notoriously counterintuitive quantum phenomena and also about the totality of everything what we call the universe That new understanding leads to a projection about the future of the universe for the next 10 million years and has practical implications about our present day way of life Particles and the Universe Kyle Kirkland, 2007 Discusses the advances in physics since Newton's and worldviews observations including nuclear physics particle physics quantum mechanics and cosmology Elementary Particles and the <u>Universe</u> Murray Gell-Mann,1991-10-25 This book is a collection of research articles especially written by eminent scientists to celebrate the 60th birthday in September 1989 of the Nobel Laureate and inventor of quarks Professor Murray Gell Mann The main body of contributions are concerned with theoretical particle physics and its applications to cosmology The Particle Odyssey Frank Close, Michael Marten, Christine Sutton, 2004-11-11 1 The world of particle physics 2 Voyage into the atom 3 The structure of the atom 4 The extraterrestrials 5 The cosmic rain 6 The challenge of the big machines 7 The particle explosion 8 Colliders and image chambers 9 From charm to top 10 The whys of particle physics 11 Future clash 12 Particles at work Table of particles Further reading acknowledgements Picture credits Index Geometry of Knowledge for *Intelligent Systems* Germano Resconi, 2012-07-27 The book is on the geometry of agent knowledge The important concept studied in this book is the Field and its Geometric Representation To develop a geometric image of the gravity Einstein used

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Table of Contents The Particles Of The Universe

- 1. Understanding the eBook The Particles Of The Universe
 - The Rise of Digital Reading The Particles Of The Universe
 - Advantages of eBooks Over Traditional Books
- 2. Identifying The Particles Of The Universe
 - 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 The Particles Of The Universe
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from The Particles Of The Universe

- Personalized Recommendations
- The Particles Of The Universe User Reviews and Ratings
- The Particles Of The Universe and Bestseller Lists
- 5. Accessing The Particles Of The Universe Free and Paid eBooks
 - The Particles Of The Universe Public Domain eBooks
 - The Particles Of The Universe eBook Subscription Services
 - The Particles Of The Universe Budget-Friendly Options
- 6. Navigating The Particles Of The Universe eBook Formats
 - o ePub, PDF, MOBI, and More
 - The Particles Of The Universe Compatibility with Devices
 - The Particles Of The Universe Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Particles Of The Universe
 - Highlighting and Note-Taking The Particles Of The Universe
 - Interactive Elements The Particles Of The Universe
- 8. Staying Engaged with The Particles Of The Universe
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Particles Of The Universe
- 9. Balancing eBooks and Physical Books The Particles Of The Universe
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Particles Of The Universe
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Particles Of The Universe
 - Setting Reading Goals The Particles Of The Universe
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Particles Of The Universe

- Fact-Checking eBook Content of The Particles Of The Universe
- 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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