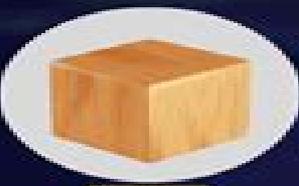


FUNDAMENTAL PARTICLES



Matter

(All things are composed of atoms)



Molecule

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



Atom

(Electrons orbit the positively charged nucleus of an atom)



Nucleus

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

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



Gluons

Gluons are **charge-less** particles that mediate 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)**.



Higgs Boson

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



W and Z Bosons

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.

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Three Components of Matter (Fermions)



Force Carriers (Bosons)

Quarks

up u	charm c	top t
down d	strange s	bottom b

Leptons

electron e	muon μ	tau τ
electron neutrino ν _e	muon neutrino ν _μ	tau neutrino ν _τ

Gauge Bosons

photon γ	gluon g	Z Boson Z	W Boson W
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Scalar Bosons

Higgs Boson H

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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 force**.
- **Electrons**, commonly found in atoms, are the most **well-known leptons**.
- There are six types of leptons:

μ Muon	e ⁻ Electron	τ Tau	ν _e Electron Neutrino	ν _μ Muon Neutrino	ν _τ Tau Neutrino
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Neutrinos

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



Gluon

Quarks



Neutron
Proton

- **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:

u Up	d Down	c Charm	s Strange	t Top	b Bottom
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Elementary Particle Physics In A Nutshell

Yan Bai



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Table of Contents Elementary Particle Physics In A Nutshell

1. Understanding the eBook Elementary Particle Physics In A Nutshell
 - The Rise of Digital Reading Elementary Particle Physics In A Nutshell
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Particle Physics In A Nutshell
 - 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 Physics In A Nutshell
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Particle Physics In A Nutshell
 - Personalized Recommendations
 - Elementary Particle Physics In A Nutshell User Reviews and Ratings
 - Elementary Particle Physics In A Nutshell and Bestseller Lists
5. Accessing Elementary Particle Physics In A Nutshell Free and Paid eBooks
 - Elementary Particle Physics In A Nutshell Public Domain eBooks
 - Elementary Particle Physics In A Nutshell eBook Subscription Services
 - Elementary Particle Physics In A Nutshell Budget-Friendly Options

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