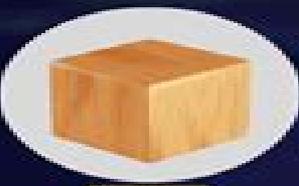


# FUNDAMENTAL PARTICLES



## 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 <sub>e</sub>	muon neutrino ν <sub>μ</sub>	tau neutrino ν <sub>τ</sub>

### 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 <sup>-</sup> Electron	τ Tau	ν <sub>e</sub> Electron Neutrino	ν <sub>μ</sub> Muon Neutrino	ν <sub>τ</sub> 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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# The Current Interface Of Geometry And Elementary Particle Physics

**Rachel S Tattersall**



## **The Current Interface Of Geometry And Elementary Particle Physics:**

The Feynman Integral and Feynman's Operational Calculus ,2000-03-16 The aim of this book is to make accessible to mathematicians physicists and other scientists interested in quantum theory the beautiful but mathematically difficult subjects of the Feynman integral and Feynman's operational calculus Some advantages of the approaches to the Feynman integral which are treated in detail in this book are the following the existence of the Feynman integral is established for very general potentials in all four cases under more restrictive but still broad conditions three of these Feynman integrals agree with one another and with the unitary group from the usual approach to quantum dynamics these same three Feynman integrals possess pleasant stability properties Much of the material covered here was previously available only in the research literature and the book also contains some new results The background material in mathematics and physics that motivates the study of the Feynman integral and Feynman's operational calculus is discussed and detailed proofs are provided for the central results *Notices of the American Mathematical Society* American Mathematical Society,1994

*Notes* Canadian Mathematical Society,1991 *Mathematical Reviews* ,2001 **Scientific and Technical Aerospace Reports** ,1990 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Bowker's Complete Video Directory 2001** ,2001 **The American Mathematical Monthly** ,1971 Notable Scientists from 1900 to the Present: N-S Brigham Narins,2001 This updated second edition of Notable Twentieth Century Scientists provides biographies of approximately 1 600 scientist in the natural physical and applied sciences including astronomy biology botany chemistry earth science mathematics medicine physics technology zoology computer science ecology engineering and environmental science Entries highlight name birth death dates nationality and primary specialization run from 400 2500 words list publications and feature a section of further reading All five volumes of the set begin with a list of entries and a chronology of major advances and volume five ends with several indexes based on the scientist's specialization gender nationality ethnicity and subject Over 400 scientists garner photographs Diversity and internationalism are hallmarks of the set Suitable for high school and college c Book News Inc **International Conference on Nuclear Data for Science and Technology** Robert C. Haight,2005-06-24 All papers were peer reviewed This conference focused on the broad field of nuclear data their production dissemination and testing with the goal of providing reliable data for applications such as nuclear fission and fusion energy accelerators spallation neutron sources nuclear medicine environment space non proliferation nuclear safety astrophysics and cosmology and basic research *High Energy Physics Index* ,1988

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