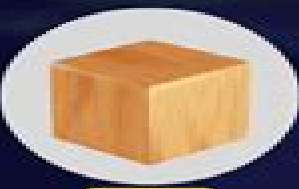


# FUNDAMENTAL PARTICLES



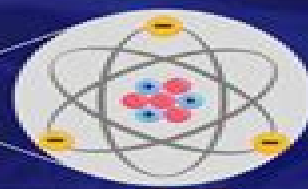
## Matter

(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**.



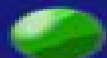
### Photons

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<sup>+</sup> and its antiparticle W<sup>-</sup>), while Z bosons are their own **antiparticles**.

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Three Generations 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
-------------	------------	--------------	--------------

## 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

- **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:



### Muon



### Electron



### Tau



### Electron Neutrino



### Muon Neutrino



### Tau Neutrino



### 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:



### Up



### Down



### Charm



### Strange



### Top



### Bottom

# Fundamental Problems In Elementary Particle Physics

**S Ashworth**



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