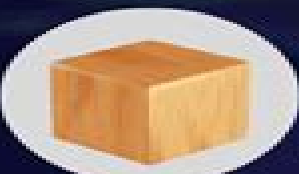


FUNDAMENTAL PARTICLES

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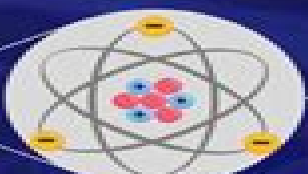
Matter

(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

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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**.



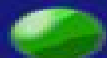
Photons

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 Generations of Matter (Fermions)

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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

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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

P

The Current Interface Of Geometry And Elementary Particle Physics

RS Peters



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