

3.2.1 Particles

3.2.1.3 Particles, antiparticles, and photons

Antiparticles

- For every particle, there is a corresponding antiparticle:
 - Antiparticles will have the same mass and rest energy but the opposite charge to their corresponding particle.

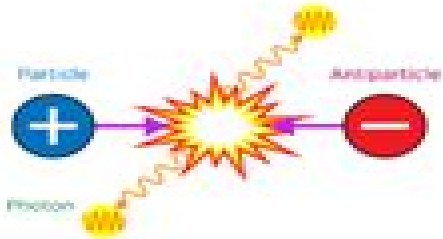
Particle	Symbol	Charge (e)	Mass (kg)	Rest energy (MeV)
Electron	e^- / e^-	-1	9.11×10^{-31}	0.51(1)
Positron	e^+ / e^+	+1	9.11×10^{-31}	0.51(1)
Neutrino	ν_e	0	0	0
Antineutrino	$\bar{\nu}_e$	0	0	0
Proton	p	+1	$1.67(3) \times 10^{-27}$	938(3)
Antiproton	\bar{p}	-1	$1.67(3) \times 10^{-27}$	938(3)
Neutron	n	0	$1.67(3) \times 10^{-27}$	939(4)
Antineutron	\bar{n}	0	$1.67(3) \times 10^{-27}$	939(4)

Photons and Planck constant

- Visible light, x-rays, radio waves, microwaves and gamma rays are all types of electromagnetic radiation.
 - Electromagnetic radiation consists of waves with wavelength λ and frequency f which travel at the speed of light c .
 - $c = f\lambda = 3.00 \times 10^8 \text{ ms}^{-1}$
- Electromagnetic radiation can also exist as photons which are massless particles or packets of energy.
 - The energy of a photon is $E = hf = \frac{hc}{\lambda}$

Annihilation

- When a particle and an antiparticle meet they will annihilate, destroying both particles and releasing energy.
 - The energy released is equal to the sum of the particles kinetic and rest energies.
 - Both photons travel at the same speed in opposite directions to conserve momentum.
 - The minimum energy of a produced photon, E_{min} , is equal to the rest energy of the particle or antiparticle, E_0 .
 - The minimum frequency or maximum wavelength of the photon is found from this rest energy: $E_0 = hf_{\text{max}} = \frac{hc}{\lambda_{\text{max}}}$



Pair production

- A high energy photon can turn into a particle-antiparticle pair through a process called pair production.
 - The energy of the photon is equal to the total rest and kinetic energies of the particle-antiparticle pair.
 - The minimum energy photon that can undergo pair production, E_{min} , is equal to the total rest energy the particle-antiparticle pair, $2E_0$.
 - The minimum frequency or maximum wavelength of the photon is found from this rest energy: $2E_0 = hf_{\text{max}} = \frac{hc}{\lambda_{\text{max}}}$



3.2.1.4 Particle Interactions

The fundamental forces

- Particles interact through the transfer of exchange particles called gauge bosons.
 - Gauge bosons are virtual particles which only exist for a short time.
- Each gauge boson represents one of the four fundamental forces.
 - The exchange of gauge bosons is analogous to two people on a skateboard throwing a ball or a boomerang to each other, causing them to both move.
 - The larger the gauge boson, the shorter the range of the force it represents.

Force	Role	Gauge boson	Relative strength	Range (m)	Particles affected
Strong nuclear force	Holds the nucleus together	Glons (g^8, g^8)	1	10^{-16}	Hadrons only
Electromagnetic Force	Attractive/repulsive force between charged particles	Virtual photon, γ	10^{-2}	∞	All charged particles
Weak nuclear force	Causes beta-decay	W bosons, W^\pm	10^{-6}	10^{-16}	All particles
Gravity	Attractive force due to particle mass	Graviton (not confirmed)	10^{-40}	∞	All particles

- Gravity is generally ignored in particle physics because of how weak it is compared to the other forces.

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