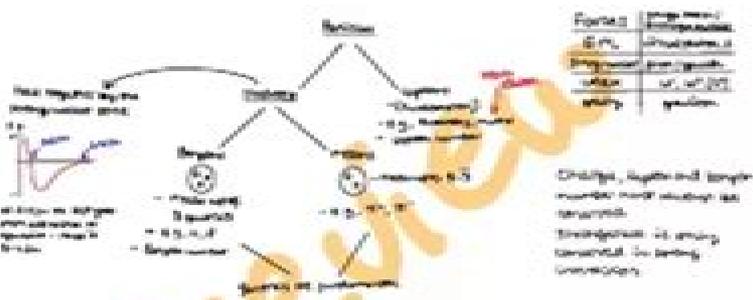


Particles and Quantum



Force	Direction
EM	Electromagnetic
Gravitational	Gravitational
Weak	Weak
Strong	Strong

Charge, spin and baryon number must always be conserved. Conservation is only conserved in every interaction.

To convert mass to energy... $E=mc^2$
 Annihilation - pair of particles and its corresponding antiparticle collide and their rest energy is converted into photons.



Pair production - when a photon turns into a particle and its corresponding antiparticle. The photon must have at least the sum amount of energy to create the particles.



Excitation
 Exciting means they gain energy through energy to climb their atomic shells.
 Alpha particles - Helium nucleus, ${}^4_2\text{He}$

- Highly ionising, so it is dangerous.
- Relatively penetrating - stopped by a plate of paper or foil in air.
- ${}^{238}_{92}\text{U} \rightarrow {}^{234}_{90}\text{Th} + {}^4_2\text{He}$

Beta - fast moving electron $\rightarrow e^-$
 - Medium penetrating and relatively quickly - stopped by a few cm of aluminium.
 - Beta decay - ${}^1_0\text{n} \rightarrow {}^1_1\text{p} + e^- + \bar{\nu}_e$ **antineutrino** to conserve spin/momentum



Gamma - high energy EM ray or photon emitted from a high energy nucleus $\rightarrow \gamma$
 - Relatively penetrating.
 - Highly penetrating - stopped by a few m of concrete.

Isotopes - Same element - same number of protons
 - different relative atomic mass - different number of neutrons
 ${}^1_0\text{n} + {}^1_1\text{C} \rightarrow {}^2_1\text{C}$

Nuclear charge - $\frac{Q}{m} [C/kg]$
 - charge to mass ratio

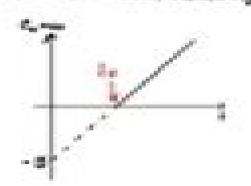
Electron volt - charge of an electron when accelerated through a pot of one volt
 - $1.6 \times 10^{-19} \text{ J}$
 - eV



Photoelectric effect

Use photons of sufficient energy or absorbed by electrons in the surface of a metal, liberating them.

- $E_{\text{photon}} = hf = \phi + E_{\text{max}}$
- 1 - photon absorbed - hf (total energy)
- 2 - frequency
- 3 - work function - minimum energy to liberate electrons
- 4 - kinetic energy left over after ϕ is subtracted
- 5 - stopped potential - minimum potential needed for electrons to be liberated



The photoelectric effect proved the particle nature of light due to the fact that the maximum kinetic energy of electrons E_{max} is not linearly dependent on the wavelength but is linearly dependent on the frequency of light. E_{max} is zero for frequencies below f_0 and is constant for frequencies above f_0 .

Stopping potential - the pot. needed to stop any electrons from reaching the other side.

- $E_{\text{photon}} = hf$
- ϕ - charge of electron
- eV - stopping potential

De Broglie

The de Broglie wavelength is the wavelength that a particle can have. The wave nature of a particle was proven by diffraction of a crystal. This is because the electron is diffracting which is wave-like.



$\lambda = \frac{h}{p} = \frac{h}{mv}$
 $\lambda = \frac{h}{m\lambda v}$
 $\lambda = \frac{h}{m\lambda v}$
 $\lambda = \frac{h}{m\lambda v}$

Fluorescent tubes

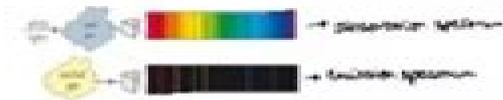


These tubes contain mercury under a high voltage is applied. This excites the gas atoms so when some of the mercury atoms emit photons when they relax. When the gas relaxes it emits UV light which is higher energy than what the electrons have, so the photons in the UV range. A phosphor coating in the tube absorbs the photons and emit visible light.

Energy levels

Electrons can be excited to higher energy levels. Either by absorbing photons from the light or by the collision. In a gas discharge tube or in a gas discharge cell when ionizing the electron energy.

Ionization energy - is enough energy to pull an electron out of an atom, so will completely change the atom.



A Level Physics Notes

Yi-Tong Ma



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