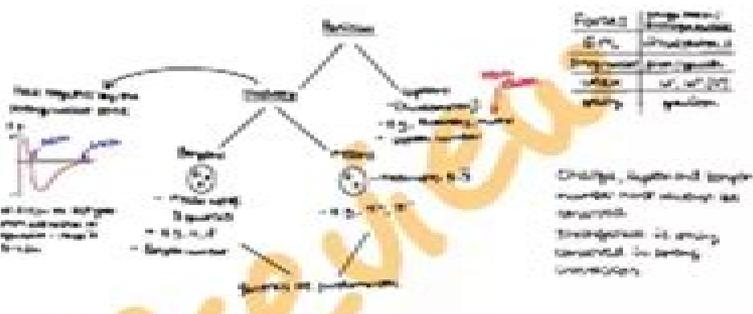


Particles and Quantum



To absorb must be energy... $E_{photon} = h\nu$
 Annihilation - pair of particles and its corresponding antiparticle created and their rest energy is converted into photons



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



Excitation

Exciting means they gain energy through energy to climb their atomic energy levels - ΔE
 Alpha particles - Helium nucleus, ${}^4_2\text{He}$
 - highly ionizing, so it is dangerous
 - relatively penetrating - stopped by a plate of paper or foil on their skin
 ${}^{238}_{92}\text{U} \rightarrow {}^{234}_{90}\text{Th} + {}^4_2\text{He}$
 Beta - fast moving electron $\rightarrow e^-$
 - medium penetrating and relatively quickly - stopped by a few cm of aluminium
 - fast moving - ${}^{14}_6\text{C} \rightarrow {}^{14}_7\text{N} + e^- + \bar{\nu}_e$ antineutrino to conserve spin/momentum



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

Isotopes - same element - same number of protons
 - different relative atomic mass - different number of neutrons
 ${}^{12}_6\text{C} + {}^{13}_6\text{C}$

Nuclear charge - $\frac{Q}{A} [100\%]$
 - charge to mass ratio

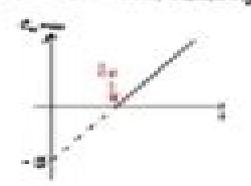
Radioactive - change of a nucleus when spontaneous through a bit of time and
 - ${}^{238}_{92}\text{U}$
 - ${}^{14}_6\text{C}$



Photoelectric effect

Use photons of sufficient energy on electrons on the surface of the metal, liberating them

- $E_{photon} = h\nu = hf$
- 1 - photon absorbed - $h\nu$ (total energy) liberates the electron
- 2 - frequency
- 3 - work function - minimum energy to liberate electrons
- 4 - E_{photon} - energy that left after ϕ is converted
- 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_k is not linearly dependent on the wavelength but is directly proportional to the frequency of light above a certain limit f_0 of the electrons liberated but is zero at $f < f_0$ (infinite for number of electrons that are emitted per second)

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

- $E_{kmax} = hf - \phi$
- 1 - change of momentum
- 2 - 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 from which produced similar groups that possessed same period. This is because the electron or diffracting particle in certain points



$\lambda = \frac{h}{p}$
 $\lambda = \frac{h}{mv}$
 λ - de Broglie wavelength
 p - momentum / mass x velocity

Fluorescent tubes



These tubes contain mercury under a high voltage is applied. This excites the gas resulting in which some of the mercury atoms emit photons when they relax. When the gas relaxes it emits UV light which is absorbed by the coating of higher energy levels when the electrons relax, they emit photons in the visible 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 example below it is a gas of atoms colliding when is giving the electron energy

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



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