

Subatomic Particles

Particle	Mass	Charge
Electron	$9.1 \times 10^{-31} \text{kg}$	$-1.6 \times 10^{-19} \text{C}$
Proton	$1.6 \times 10^{-27} \text{kg}$	$+1.6 \times 10^{-19} \text{C}$
Neutron	$1.6 \times 10^{-27} \text{kg}$	Neutral

Energy

$$E = h\nu = \frac{hc}{\lambda}$$

E = energy

h = planck's constant

ν = frequency

c = speed of light

λ = wavelength

Atomic Number

Z is used to denote the *Atomic Number* of an element.

Z = Number of protons in the nucleus

Constants

Constant	Symbol	Value
Planck's Constant	h	$6.6 \times 10^{-34} \text{Js}$
Rydberg Constant	R	109678 cm^{-1}

Photoelectric Effect

Photoelectric Effect

(i) $E = W + K.E.$

(ii) $h\nu = h\nu_0 + \frac{1}{2}mv^2$

(iii) $h\nu = h\nu_0 + (\text{stopping potential}) * (\text{charge})$

$h\nu_0$ is aka 'threshold energy'

C

By Mudassir Khan

(mvdassir_)

cheatography.com/mvdassir/

Not published yet.

Last updated 22nd August, 2022.

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