

6/6/22

UNIT: 4 QUANTUM MECHANICS

Page No.	
Date	

Quantum: position, velocity not fixed.
 small particle $v \approx c$ NLM not applicable.
 (microscopic)
 Both particle & wave nature

Nature loves symmetry

* De-Broglie's hypothesis:

A/c to De-Broglie's hypothesis every moving particle is associated with wave called matter wave or De Broglie wave whose wavelength is given by

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

λ - wavelength

$h = 6.63 \times 10^{-34} \text{ J-s}$

m - mass of particle

v - velocity of particle

$$m = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}}$$

m_0 - rest mass

m - Relativistic mass

* DeBroglie Wavelength by Analogy with Radiation:

- From the theory of relativity the momentum of massless particle like photon is related to its energy 'E'

$$E = mc \cdot c$$

$$\boxed{E = p \cdot c} \quad \text{--- (i)}$$

- From Planck's quantum theory energy E

$$E = h\nu$$

$$\boxed{E = \frac{hc}{\lambda}} \quad \text{--- (ii)}$$

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