

DAY-3 - TASK:-

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frequency:-

Speed of vibration is called frequency.

Quantum Physics:-

The total sound is a combination of all possible frequencies superimposed on one another.

Superposition:- The total state of the system is a combination of each possible basis state.

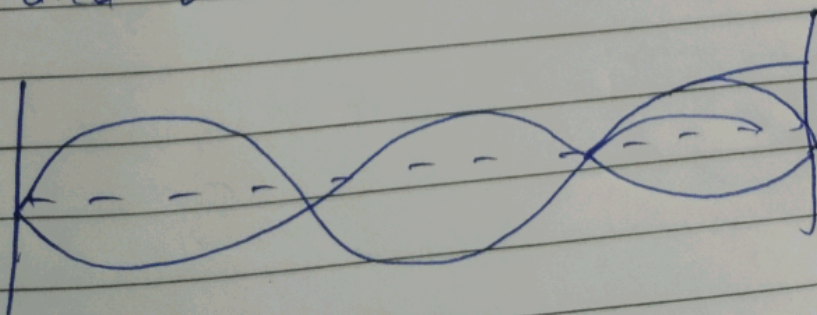
Heisenberg's Uncertainty Principle.

$$\Delta x \Delta p \geq \frac{h}{2}$$

Wavelength:-

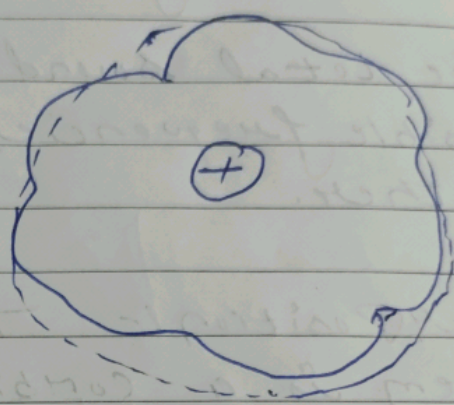
Wavelength is inversely proportional to an object's mass.

Electrons behave as both particles and waves.



An electron is a standing wave but not a linear one.

An electron is a circular standing wave.



The energy of the electron is quantized.

Constructive interference between these standing waves results in covalent bonding. overlap of p orbitals forms π bonds.

Schrodinger Equation

$$H(t)|\psi(t)\rangle = i\hbar \frac{\partial}{\partial t} |\psi(t)\rangle$$