



Heisenberg Uncertainty Principle

- How accurately can we measure the properties of an electron (or other particle)?
- A limit to how accurately we can measure the position and momentum of an electron simultaneously.
- Not significant for macroscopic objects
- Gives and ultimate limit on what can be known in science

Principal Quantum Number

- Principal quantum number (shell number)
 - Location of energy level
 - Energy levels n = 1,2,3,...
- Secondary quantum number (angular momentum)
 - Levels: l = 0,1,2,...,n-1
 - Orbitals: l = 0 are s orbitals ; l = 1 are p orbitals ; l = 2 are d orbitals ; f, g, & h for l = 3,4,85

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