

The Quantum-Mechanical Model of the Atom

* Schrödinger wave equation :-

→ The square of the wave function gives the probability density

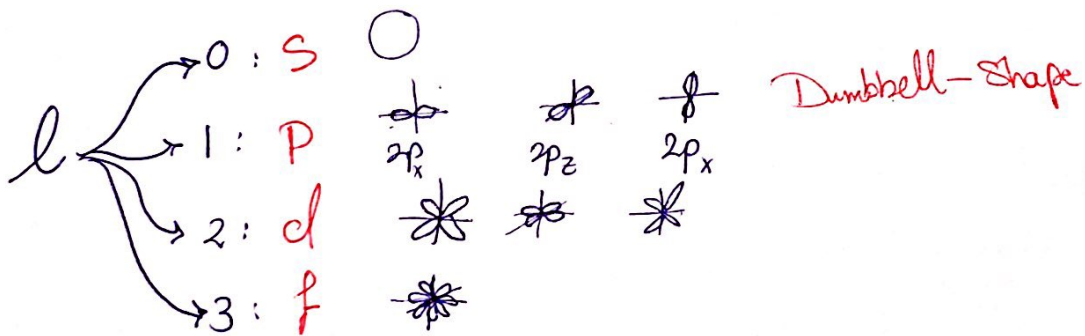
Quantum numbers

Principal: (n) : indicates size of the orbital (Distance from nucleus)
 • Positive integer $n > 0$ Shell

Angular Momentum: (l) : indicates shape of orbital subshell
 • $0 < l < n-1$

Magnetic: (m_l) : indicates the spatial orientation of the orbital
 $-l < m_l < +l$

Energy: $s < p < d < f$



• Energy levels of the H atom

