

Mass Number

Mass Number of an atom = number of protons + number of neutrons

## **Quantum Number**

atomic number

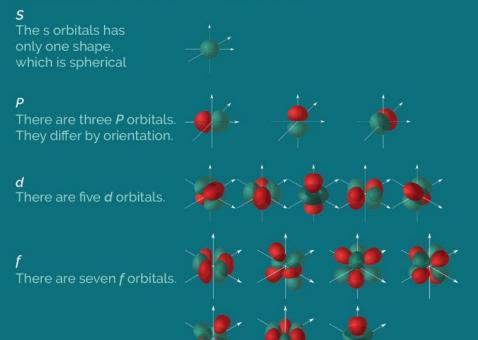
- Principle Quantum Number
- • Azimuthal Quantum Number
- -- Magnetic Quantum Number
- -- Spin Quantum Number

Quantum Number	Symbol	Possible values
Principal Quantum Number	п	1, 2, 3, 4,
Azimuthal Quantum Number	l	0,1, 2, 3,(n-1)
Magnetic Quantum Number	$m_{l}$	l,1, 0, 1, 1,,l
Spin Quantum Number	m <sub>s</sub>	$+\frac{1}{2},-\frac{1}{2}$

## **ATOMIC ORBITALS**

## Shapes of Atomic Orbitals Energi

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## Energies of Atomic Orbitals

Negatively charged and have their own energies Energy defines in which orbit electron will be there

Atomic Number(Z)

in nucleus of an atom

Total number of protons present

