Mass Defect

- Mathematically :- **$\Delta M = [Z\, m_p + (A-Z)\, m_n] - M$**
  - Where m_p =mass of 1 proton, Z=number of protons,(A-Z)= mass of neutrons, m_N = mass of 1 neutronand M =nuclearmass of the atom.

Binding Energy

- **$E_b = \Delta Mc^2$**
  - Where E_b = nuclear binding energy, ΔM=mass defect.