

Chapter 02

STRUCTURE OF ATOM

Discovery of proton:-

- Before discovery of Cathode rays “Rutherford” discovered few rays moving in opposite directions to that of cathode rays, named as “Canal rays”.
- After discovery of electron Rutherford modified discharge tube and carried same experiment.
- Canal rays are also called as anode rays.
- Properties of anode rays are similar to that of cathode rays.
- The specific charge ratio of anode rays charges depending on the gas taken in discharge tube.
- The smallest possible e/m value is obtained when the gas taken is hydrogen.
- The constituent particle is named as “Proton”
- Charge on proton is $+1.6 \times 10^{-19} C$
- Mass of proton is $1.672 \times 10^{-28} kg$