

Chapter

5

ATOMIC STRUCTURE

DISCOVERY OF ELECTRON (DISCHARGE TUBE EXPERIMENT)

William Crookes in 1876 performed series of experiments.

Discovery of electron was done by the **cathode ray tube (CRT)** or discharge tube. It is a glass tube having two electrodes in it. It may contain air, any gas or vapours of any substance at very low pressure. The electrode are connected to a source of high voltage. The exact **voltage** required depends upon the **length** of tube and the pressure inside the tube. By increasing the length voltage also increases. The tube is attached to the vacuum pump by means of small tube so that the conduction of electricity may be studied at any value of low pressure.

It was observed that current did not flow through the gas at ordinary pressure, even at high voltage of 5000 volts. When the pressure inside the tube was reduced and a high voltage of **5000 – 10000** volts was applied, then an electric discharge took place through the gas producing a uniform glow inside the tube. When the pressure was reduced further to about **0.01 torr**, the original glow disappeared. Some rays were produced which created fluorescence on the glass wall opposite to the cathode. These rays were called **cathode rays**. The colour of the glow or the fluorescence produced on the walls of the glass tube, depends upon the composition of glass.

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