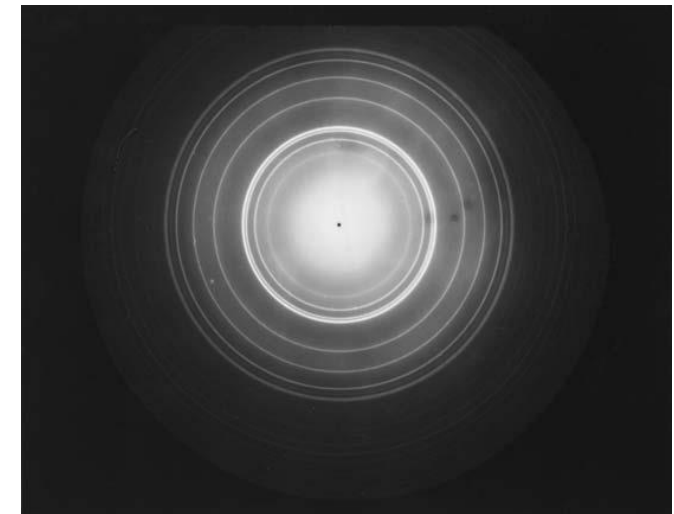
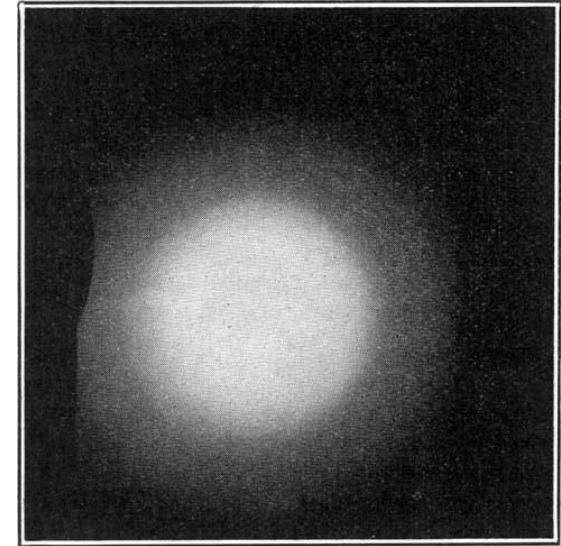
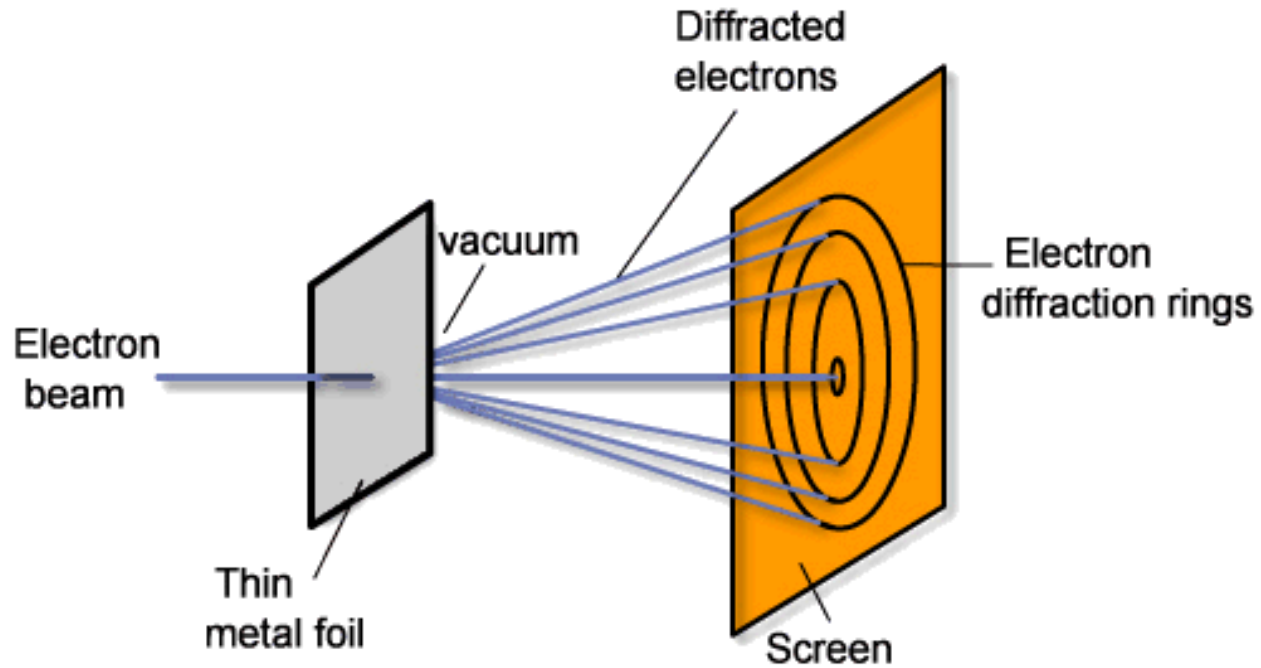


Electron Scattering

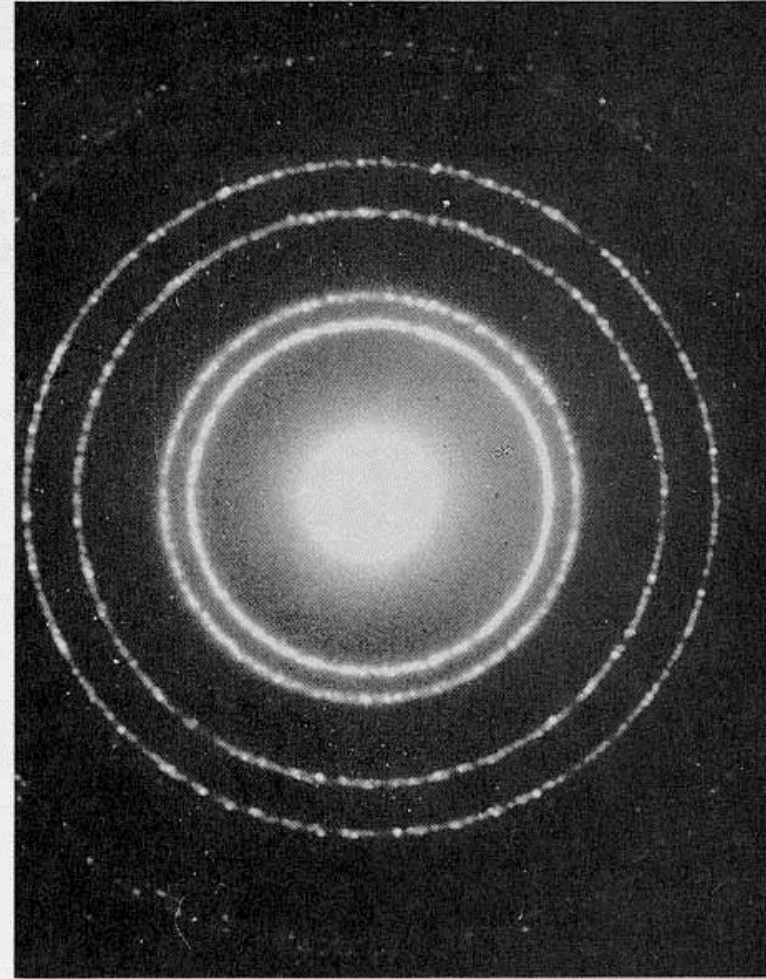
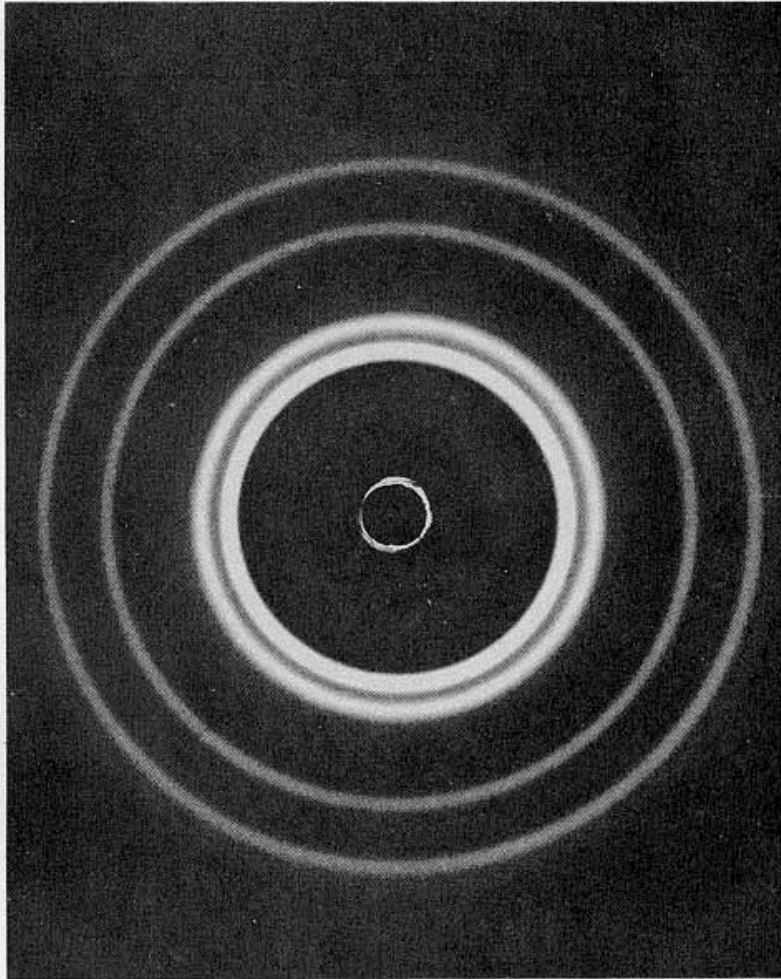


G.P.Thomsons experiments

Davisson and Germer measured similar patterns in reflection

With optimisation and care a very distinctive pattern seen (e.g. Be foil)

The diffraction pattern on the left was made by a beam of x rays passing through thin aluminum foil. The diffraction pattern on the right was made by a beam of electrons passing through the same foil.



Startling Conclusion: Electrons behave as if they are waves !!!