

Course on Atomic Structure for Class XI

Atomic structure:-> This chapter mainly deals with structurely atom. Dalton otomic theory (1808) Thomson - e (1896) Thomson atomic mode (1898) (7911) Rutherford Model Bohr Model
Shrowinger Model (1915)(1925)

PMM-pydding model Water melon hødel Thomson atomic model (1898) tive charge In this model trænghof fre is distanted -ine charge Sphere and to make is embedaled electrically hobe atom nentral.

Ruprertord Mudeal model 3-2 Thotographic phic (2000)

© experimeted results ->

Conclusion

Retrespord neclear atomic model

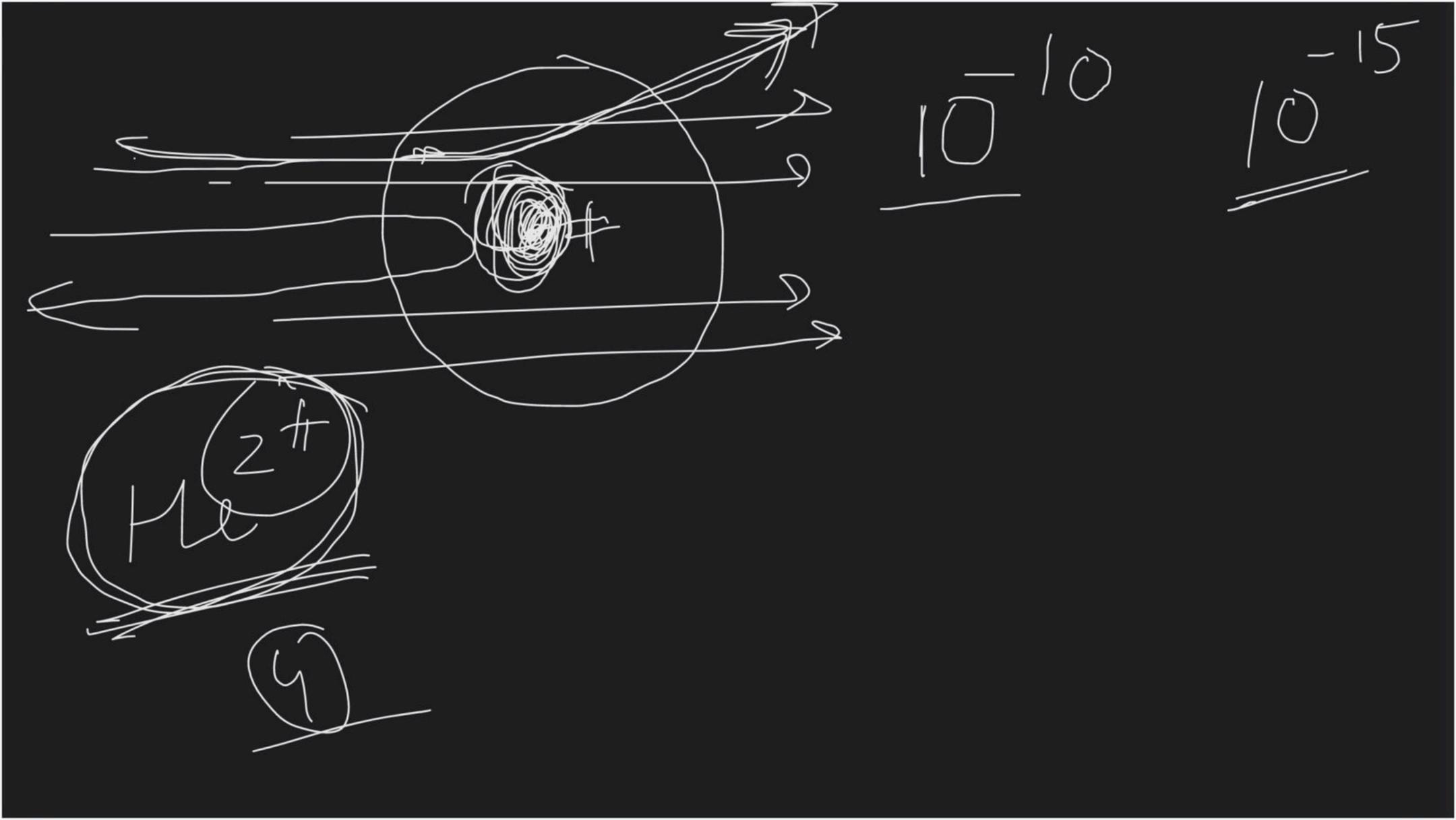
O

Retrespord neclear atomic model

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8 b Servation 1. Most of the X-particle passed undeflected through the gold foll. DA Small fraction of the x-particles was sayletted

3) 1 very few d-partide (1 out of 2000) 50 miles back (deflected by 1800) (chearly) Conchan ond



most of the space in the as byggt atom is empty of Le a-particles passed 2) The positive charge has to be concerned

in a very small volume that repolled and deflected Positively charge x-pontial 3 Calculations by hat 2 merphet showed by volume occupied by

is very small. The radius of an atom is nearly 10-10 ml and that of nucleus 10-15 m. Of utherford nuclear atomic model: 1) positive charge and man of an atom is sensely concentrated in a very small region at the centre of the atom alled muchus. The nucleus is suround by e, that moves

around the uncleus in

circular path called orbits

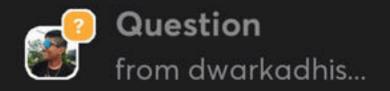
3) Electrones and ynders are held together by electrostatic force of attraction.

Drawbacks

(1)



As per maxwell e/e chomagnetic theory a Charge particle under acceteration must Buit energy continuously. In Rutherford Model et reloves around nubleur i circular path, in which et experience acceleration Si it must also en tenergy continuously. and shalf fall in hirelens following spiral path. why atoms form chemical by bond is also not explained by Ruprerford. (z)



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Boltzman (1906)

1900-1930