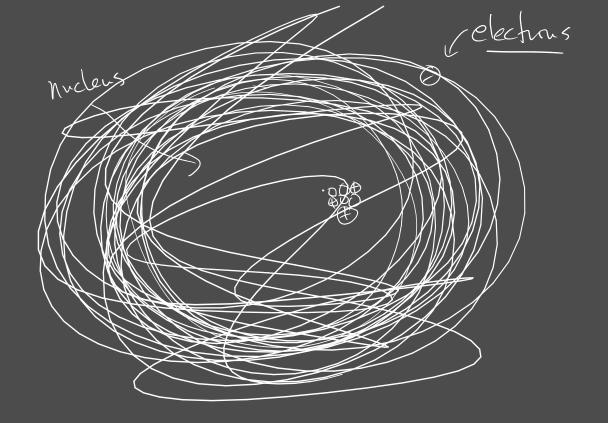
Chapter 12

Atom

protons - pointur

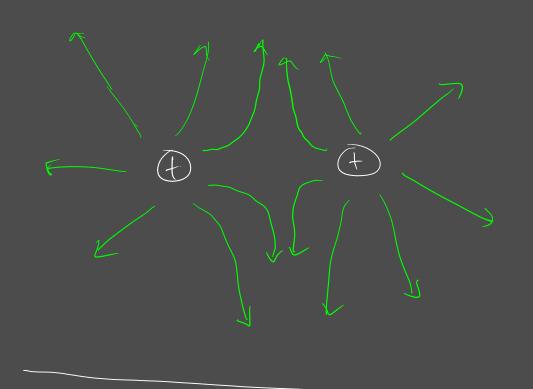
electrons - megatine

ventrons - no charge



Electric Field > force field that recruits from charge Electric Force = charge in a field x Field caused by another charge "passive" charage "active charge being acted on by producing an the field. electric field 2 direction of field lines 15 direction of force on a pointine pressive test charax.

ton a tost el trest el tries active charage



charge > 1 mit of charge > 1 Contomb

1 elementary chevice > theory of one electron or proton

(6.24 x 10 electrons = 1 Contomb

What is the charge of I electron in terms of Contours? 1 dementary chara = 10 = 1.6 + 10 = 6.24 · 10 = 1.6 + 10 -always | Electric Field true | can be complicated Force = charge x Field Electric Field q=10C point charge 1 = 9.109 Nm2 F = K.q.gz & Coulomb constant only true for two point charges

$$2\mu C = 2.10^{-6} C$$

 $0.6\mu C = 0.6.15^{-6} C$
 $10m C = 10.10^{-3} C$

Electric Field

$$E \left[\frac{N}{2} \right] = q \cdot E$$

$$\uparrow \uparrow \uparrow$$

$$\left[N \right] = \left[C \right] \cdot \left[\frac{N}{C} \right]$$

Work has been done to get the charge to here. The charge now has potential energy Electric Potential) Potential Everagy Voltage