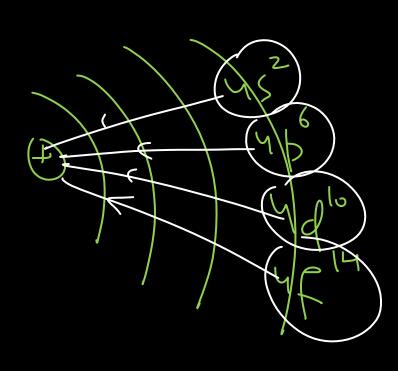


Classification of elements Lecture -6

-factors affective IE iii) Shielding effect (Screening effect) Shelding of nucleus from et of outernost Shell by nur e. order of Shieldig -> SET SizeT IEN JSEL Sizel I.FM Iv) Penet sation effect: Tendency of outermost shell to penetrate towards order of penetration effect. 5 > 5 d > F TED Sized I.ED JP.EL Size P IFK



-> Electrongain entholpy (EGE) Evergy released by an atom to gain an electron ion Standard Conditions 7 E.G.E = - Ve = Atom is gaining electron readily E.G.E = tre - Atomis hot gaining electron readity. for nonmetals | for metals. - 5.6.E = mare - ve Lasy to gain c S1-= J.0.3 €.@.E = +n6 Jiffrult to sein, - factors affectif E.G.E.

Size D E-GE=less-ve/mox + ve Size L E-GE = More - Je leer jue 2) Left to Pish 9 v- 78 m= 7.0.3 To sto Battoni E-OF= less-ve | More tup

(3) Stilling offer.

SET Sicot E.G.F. = lear-ve

(4) P.F.,

P.FT Sicol E.G.F. = Marry P.,

- Electronegability (EN)

- Affinty for et 15 Celled electronegativity.

J' Healine is from 0 to 5.

- It can't be measured as it is a comparable value
for eq: EN of F = 4

5 N of Na = 0.9

5.61.E ZN Z 1) Afforty for e (1) Energy released when atom gain electron. Court Le Calculated but only (2) Valre Com de Cel Mede (owpared). (3) S I vuit = Jne (-1 (3) No vii (-9 + ue - ve 90-5