

Atomic Structure (Formula)

1. $E = -13.6 \frac{Z^2}{n^2} \text{ eV}$

2. $v = 2.18 \times 10^6 \frac{Z}{n} \text{ m/sec}$

3. $r = 0.529 \frac{n^2}{Z} \text{ \AA}$

4. $E(n) = -\frac{R_H}{n^2}$ $R_H = 2.18 \times 10^{-18}$

5. $\bar{\nu} = \frac{1}{\lambda} = R_H Z^2 \left[\frac{1}{n_1^2} - \frac{1}{n_2^2} \right]$ (for $E_{\text{photon}} = h\nu = hc$)

7. $\lambda = \frac{h}{mv} = \frac{h}{\sqrt{2mKE}} = \frac{h}{\sqrt{2m_e V}}$ $\Delta V_{SP} = \sqrt{V_e - V_{SP}} = KE$

9. Photoelectric effect

$$h\nu = W_0 + \frac{1}{2}mv_e^2$$

10. Heisenberg

i) $\Delta x \cdot \Delta p \geq \frac{h}{4\pi}$

11. $mvr = \frac{nh}{2\pi}$

↑
orbit ang. mom

ii) $\Delta x \cdot \Delta v \geq \frac{h}{4\pi m}$

iii) $\Delta E \cdot \Delta t \geq \frac{h}{4\pi}$

12. orbital ang. mom = $\sqrt{l(l+1)} \frac{h}{2\pi}$

13. total spin (S) = $\frac{1}{2} \times n \rightarrow$ no. of unpaired e⁻

14. spin magnetic moment = $\sqrt{n(n+2)} \text{ B.M.}$

15. Spin multiplicity = $2S+1$

16. total nodes = $n-1$

17. radial nodes = $n-l-1$

18. ang. nodes (N.P) = l

19. max type of wavelength = $\frac{n(n-1)}{2}$

20. total / max electron = $2n^2$
↳ orbit no.

Calculation Of Atomic Structures

Sabine Zange



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