2. Atomic Structure
1. No. of subshells in main shell = n
2. Total no. of orbitals in main shell = (n)²
3. Total no. of orbitals in subshell = 2(21 + 1)
4. Total no. of electrons in main shell = 2(21 + 1)
5. Total no. of electrons in sub shell = 2(21 + 1)
6. No. of radial or spherical nodes = n - 1 - 1
7. Nodal plane :
11. Spin angular momentum of electron.

$$\mu = \sqrt{t(\ell + 1)}\frac{h}{2\pi},$$

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No. of revolutions made by nth shell $v = \frac{Z^2}{n^3}s^{-1}$
 $\Rightarrow No. of revolutions made by nth shell $v = \frac{Z^2}{n^3}s^{-1}$
 $\Rightarrow No. of wave made by e^- in nth shell
 $T_n = 1.5 \times 10^{-16} \times \frac{\pi^3}{Z^2} \Rightarrow v \propto \frac{\pi^3}{Z^2},$
 $\Rightarrow No. of spectral lines produced when
 $e(ctron falls to ground level, = \frac{n(n-1)}{2},$
 $\Rightarrow No. of spectral lines produced when
 $e(ctron falls N = 1)^n$
 $= \frac{n(n-1)}{2},$
 $\Rightarrow No. of spectral lines produced when
 $e(ctron fore show n^3);$
 $E - hv = \frac{hc}{\Lambda}, \lambda = \frac{h}{\sqrt{2m \times K.E}},$
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 $\Rightarrow No. of spectral lines produced when
 $e(ctron fore show n^3);$
 $E - hv = \frac{hc}{\Lambda}, \frac{2}{\sqrt{2m \times K.E}},$
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 $e(ctron fore show n^3);$
 $E - hv = \frac{hc}{\Lambda}, \frac{2}{\sqrt{2m \times K.E}},$
 $\Rightarrow No. of spectral lines produced when
 $e(ctron fore show n^3);$
 $= Rata TE = -13.6 \times \frac{Z^2}{n^2} eV/atom,$
 $\Rightarrow KE and TE = \frac{KE}{TE} = \frac{Ze^2}{2r} \times -\frac{Ze}{Ze^2} = -1$
 \Rightarrow Angular mo$$$$$$$$$