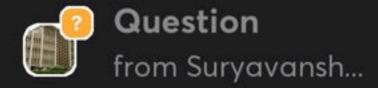
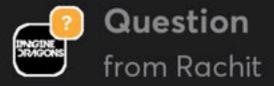


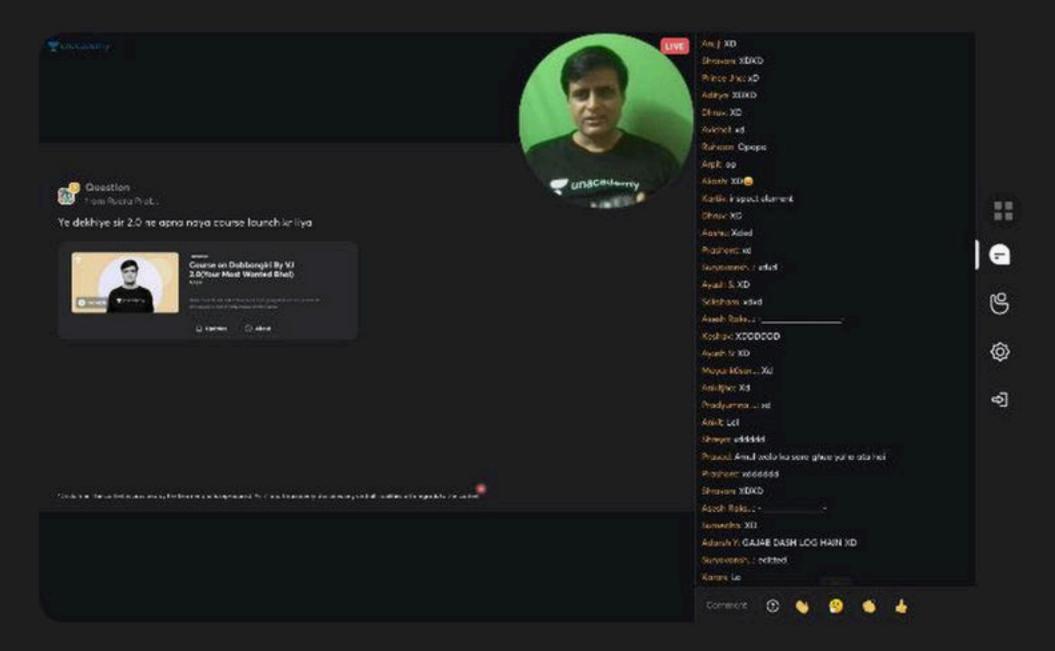
Course on Atomic Structure for Class XI

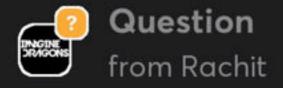
I E = 10 eV 10 volt

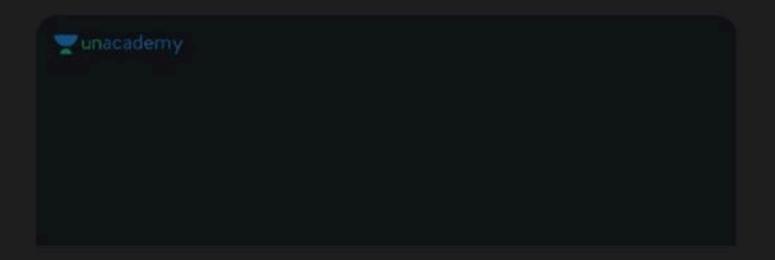










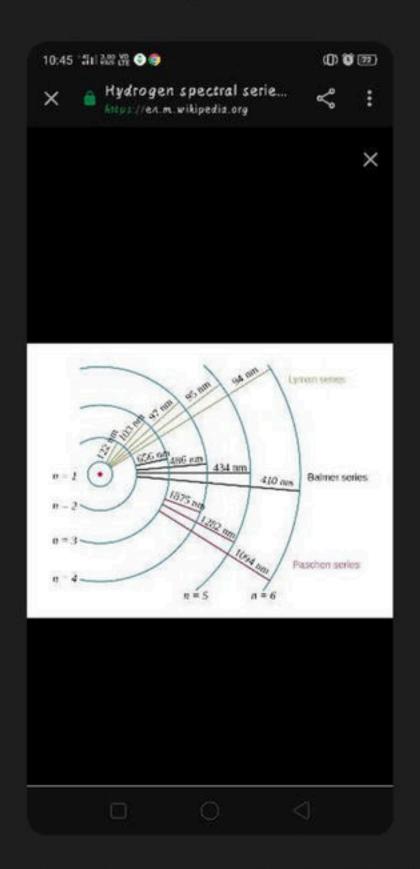




Ye dekhiye sir 2.0 ne apna naya course launch kr liya

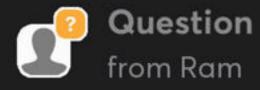






<sup>\*</sup>Disclaimer: The content is provided by the Learner and is reproduced 'As Is' and Unacademy disclaims any and all liabilities with regards to the content

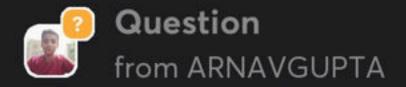


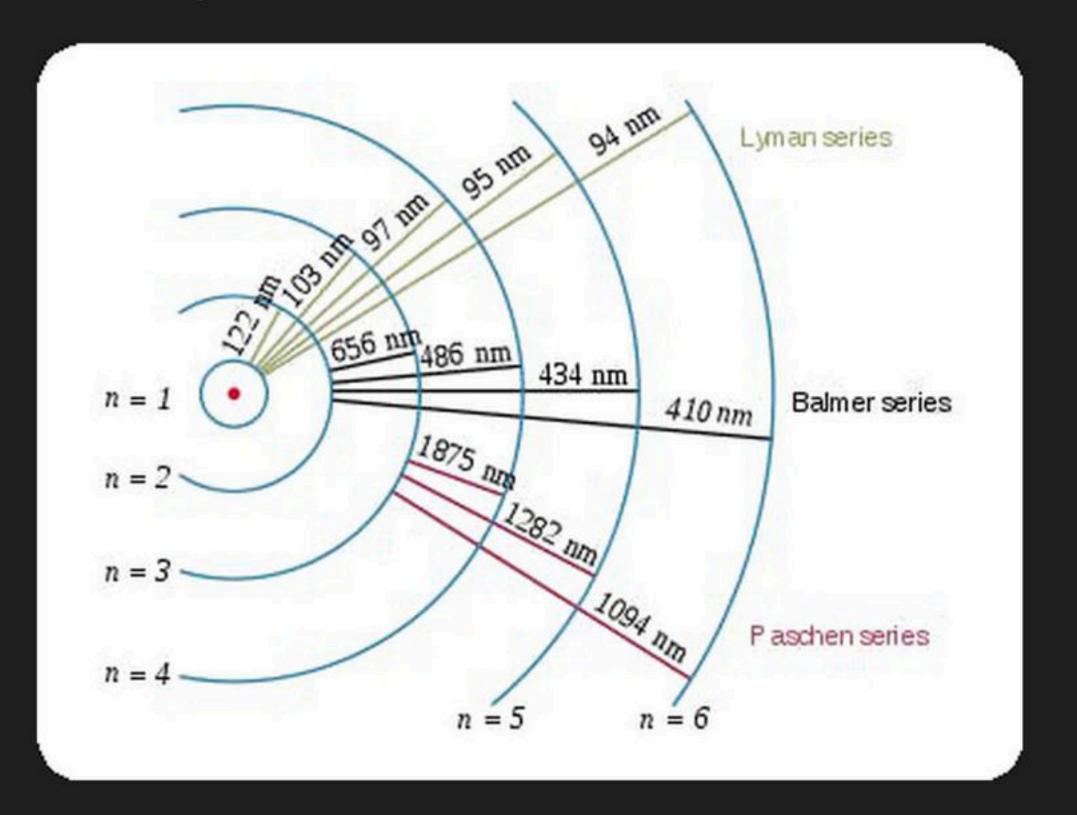


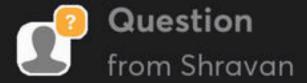
what will be 'n' of electron moving from 2 to 6 in exited state?

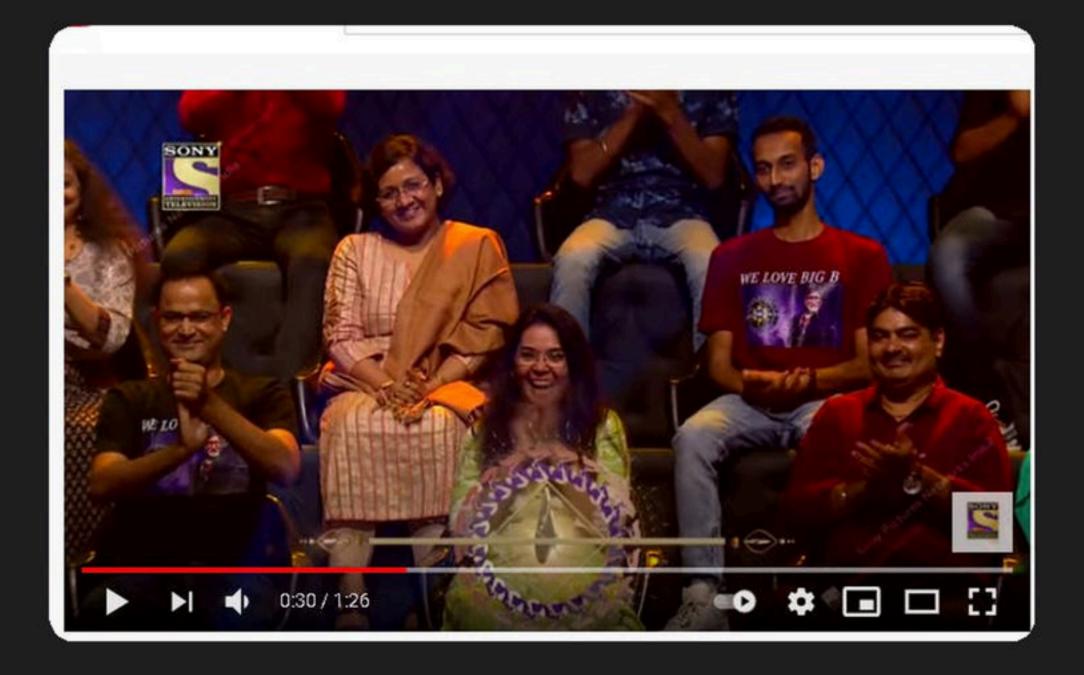
$$6 \rightarrow 2$$

$$-\frac{\eta(\eta-1)}{2}=\frac{5\times 4}{2}$$









78

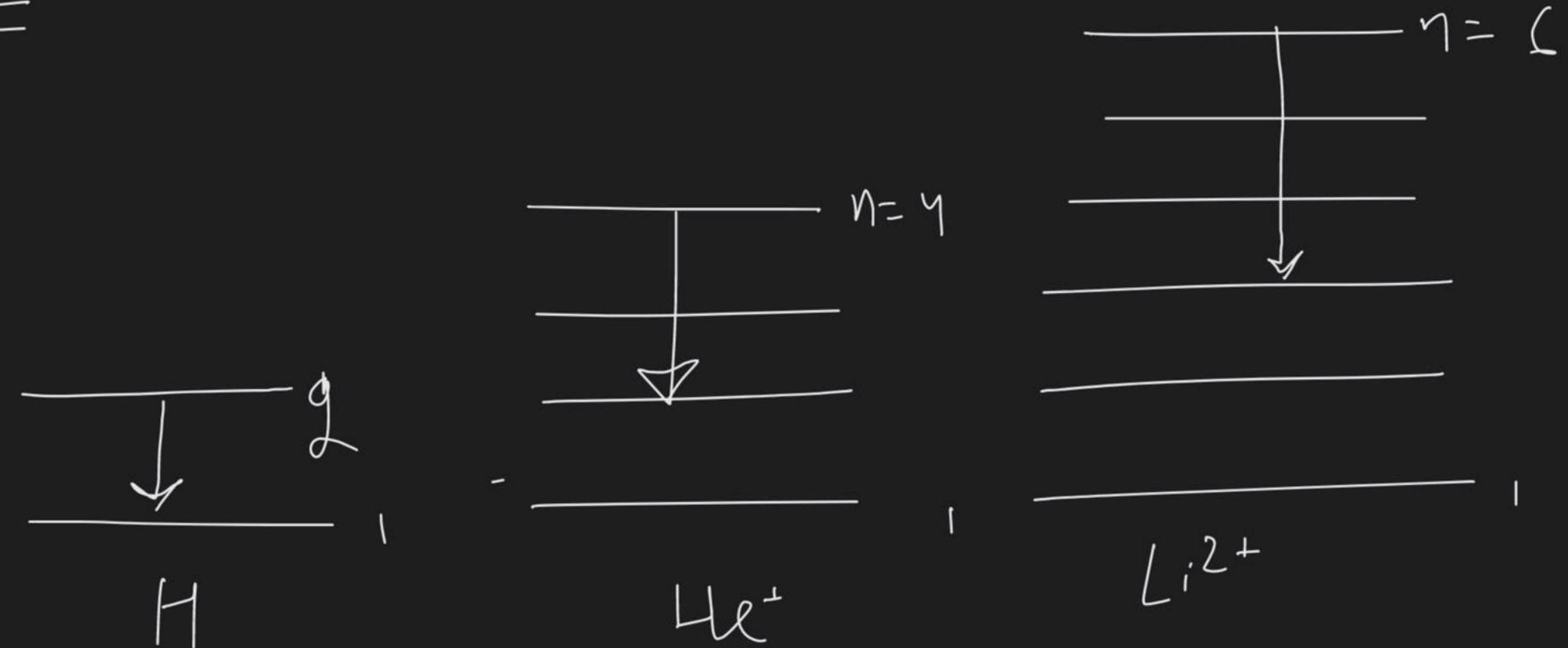
 $\frac{9}{277} \times 16^{-8}$ 

31)

-1.51 -3.4 -13.-6

1.89×1.6×10-19 J×6.02×10

 $\frac{32}{1026} = \frac{1240 \text{ mmeV}}{1026}$ 



He 2/ 3 -2

4-2 6-26 -- 4

(;2+

3-1.5

4.5-3×

--3

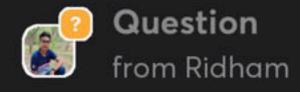
J-3

9 - 6

M--0.28 13.5 3.4

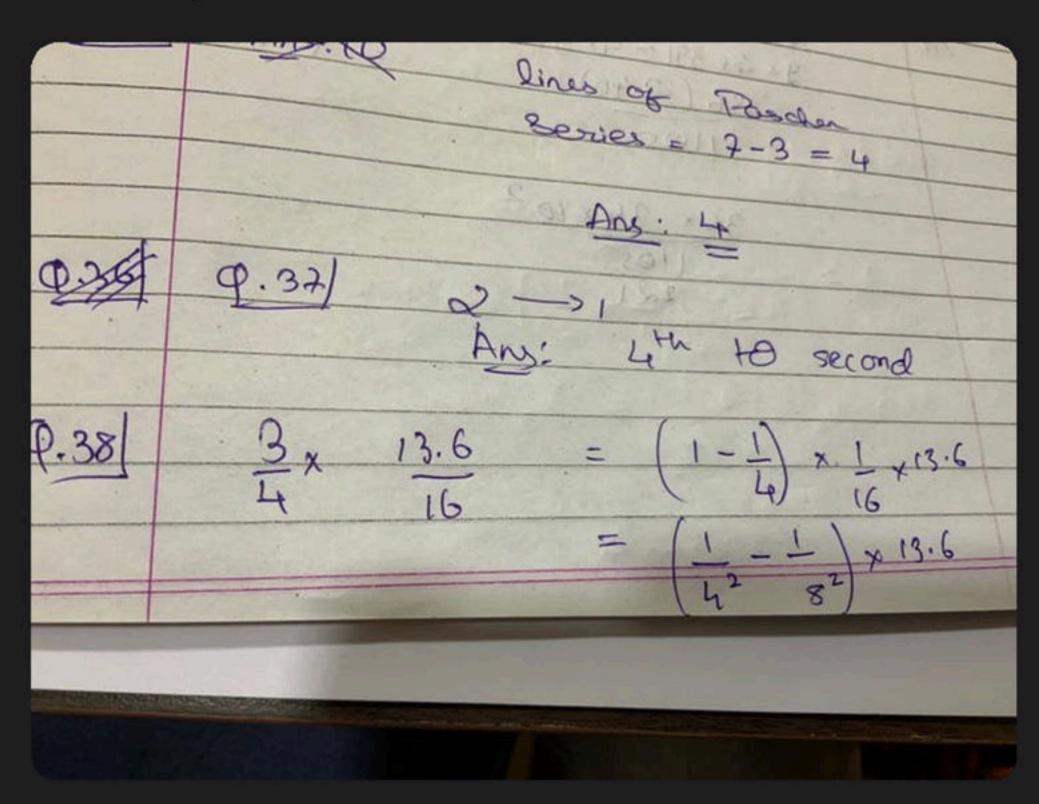
0.6375

0.85



# 0.6375=-3 X 8.85

#### Please help me with this doubt



78.2

$$\left(29\right)\frac{1}{\lambda} = R_H \times \left(\frac{1}{1} - \frac{1}{4}\right)$$

$$\frac{1}{2}$$
 =  $\frac{2}{2}$ 

$$\frac{1}{\lambda_2} = \ell_n \qquad \left(\frac{1}{1} - \frac{1}{9}\right)$$

$$\frac{1}{\lambda_3} = \frac{1}{\kappa_n} \times \frac{16}{15}$$

$$\frac{1}{x^{1}} = \frac{1}{x^{4}} \times \frac{4}{3}$$

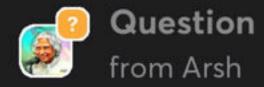
He<sup>1</sup> Z=2  

$$N \rightarrow 2$$

$$\frac{1}{2} = R_{1} \times 4 \left( \frac{1}{4} - \frac{1}{8} \right) \left( \frac{7}{4} -$$

 $\frac{-1}{13} - \frac{13}{13}$   $\frac{-1}{13} - \frac{13}{13}$   $\frac{13}{13} - \frac{13}{13}$   $\frac{13}{13} - \frac{13}{13}$ 





SIR TOTAL ENERGY KE FORMULA ME ENERGY N^2 KE INVERSE PROPORTIONAL HAI MTLB ENERGY OF SHELL DEC HOTI HAI MOVING OUTWARD......PR GOOGLE ETC. PE ISKA ULTA BATATA HAI......

-13.6 X Z 4

Conisdering Bohr quantization of angular momentin to capplicable to our solar system (Assuring single planet system 1.e. earth) Find radius, speed 4 T.E of possible orbits 

$$\xi = \frac{n^2h^2}{4\pi^2} \frac{mv^2}{4\pi^2} = \frac{nh}{2\pi}$$

$$v = \frac{2\pi GMm}{Nh} = \frac{mv^2}{2} = \frac{GMm}{Nh}$$

$$T \cdot E = \frac{1}{2}mv^2 - \frac{GMm}{N} = -\frac{1}{2}\frac{GMm}{N}$$

$$T \cdot E = \frac{1}{2}mv^2 - \frac{GMm}{N} = -\frac{1}{2}\frac{GMm}{N}$$

$$T \cdot E = \frac{1}{2}mv^2 - \frac{GMm}{N} = -\frac{1}{2}\frac{GMm}{N}$$

G My

Q. In a hypothetical H-like atom PE of the system is given by Kln2 find Exp. for 1, b-4 T.E. Using Bohr quatization of angular mometre. F = -AU Dr

ドー 一人

いくろこ りり MVL K - 3/ m Jk - hh 19 = J K 2 - hh T.E = 1 mv2+ klnr - 1/2 + Klm. hh 2 TI Km

8 × PET F: - AV IR

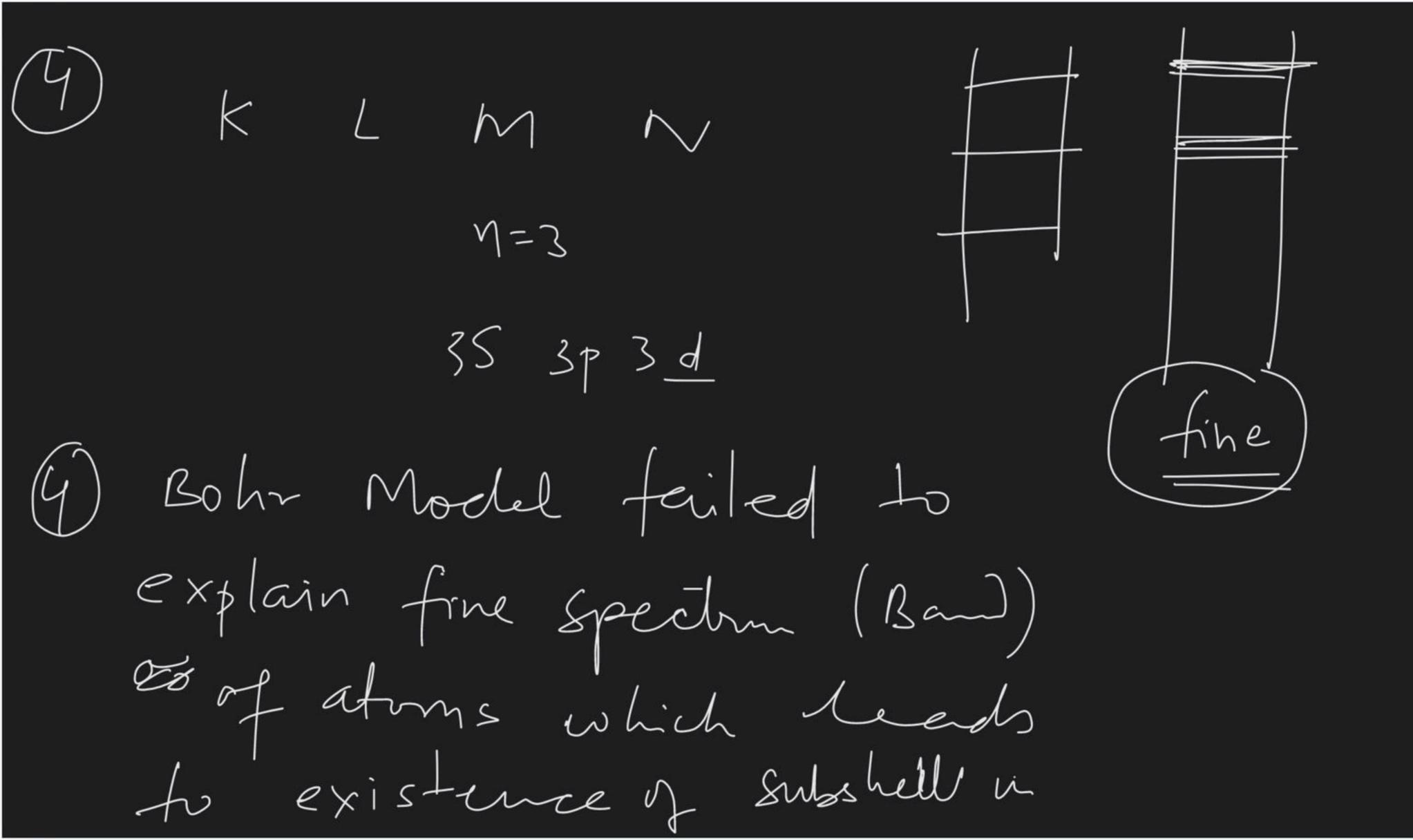




\_

- Klm A

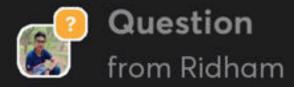
Drawback of Bohr Model: -> 1.) It is applicable to single & System 2) In a stationary orbit et does not love energy whereas as per maxwell theory it should. 3) No derivation/explaination was given for Bohr Thatigation of angular mounting.



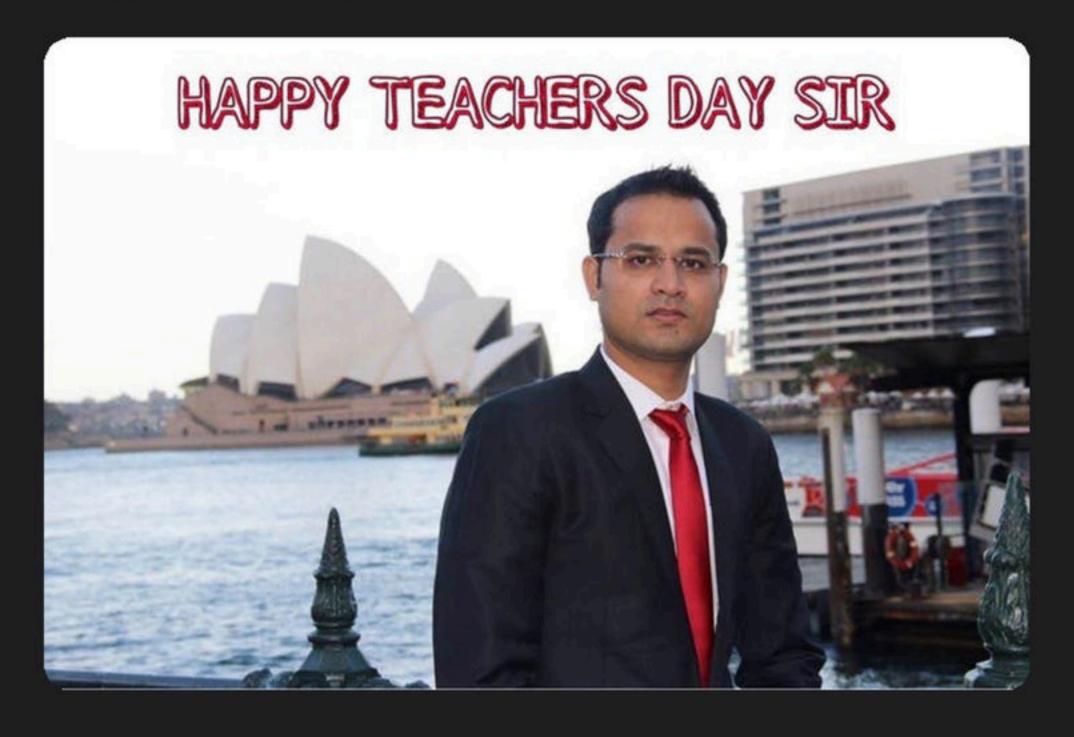
Bohr Model failed to explain Splitting of Spectral likes in the presence of electric field (Stark effect) and in a magnetic field (Leeman effect).

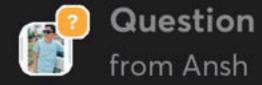
(1) It could not explain the ability of atoms to form- molecules by Chemical bonds.

S-2  $\left|-8\right|$ 

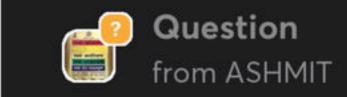


Happy teachers day sir

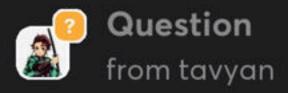




HAPPY TECHERS DAY SIR....HMESHA APNA ASHIRWAD BNAY RAKHIYEGA



happy paryushan parv sir.....



Class 11 » Chemistry » Structure of Atom » Bohr's Model for Hydrogen Atom » When an elec...

Question

When an electron in hydrogen atom, jumps from n=6 to n=2 energy level then maximum number of possible spectral lines are equal to

1 ln z = 1/2 / 2

