The ground state of the electron in hydrogen atom is -2.178×10^{-18} J. What would its energy be, if it is excited to n=3 level?

Answer:

$$E_{el} = -\frac{1}{n^2}K$$

K = -2.178×10^{-18} J

$$E_{el} = -\frac{1}{3^2} \times (-2.178 \times 10^{-18}) = 0.242 \times 10^{-18} J$$

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