



Energy is Quantized
 Quantity (a # to it)

Ladder

$E_{1/2}$ $6.63 \times 10^{-34} \text{ J}\cdot\text{sec.}$
 Planck's constant (h)

$E = hf$ $C = f\lambda$
 $f = \frac{c}{\lambda}$
 $E = \frac{hc}{\lambda}$
 $E\lambda = hc$

$E = R_H \left(\frac{1}{n}\right)^2$
 \uparrow
 Rydberg constant
 2.18×10^{-18}

energy level

$$E = R_H \left(\frac{1}{n_i^2} - \frac{1}{n_f^2} \right)$$

Energy absorbed or released for that "jump"

initial energy level

Final energy level.

$$6/34 \text{ a+c}$$