

אנרגיית פוטון

$$E \propto \nu$$

$$E = h \nu$$

$$h = 6.626 \cdot 10^{-34} \text{ J} \cdot \text{s}$$

$$H_z \cdot (h) = J \rightarrow H_z \cdot \frac{J}{H_z} = H_z \cdot \frac{J}{\frac{1}{\text{s}}} = \cancel{H_z} \cdot \boxed{\cancel{J \cdot \text{s}}} = \boxed{J}$$

$$\downarrow \nu \propto \frac{1}{\lambda} \uparrow$$

$$E \propto \frac{1}{\lambda}$$

$$E = h \nu$$

$$\nu = \frac{c}{\lambda}$$

$$\rightarrow E = h \cdot \frac{c}{\lambda}$$

$$E = \frac{hc}{\lambda}$$

$$E = h \nu$$