

Answer on Question #69729-Physics-Other

$K_{\max} = (6.63 \cdot 10^{-34} \text{ J}\cdot\text{s})(7.09 \cdot 10^{14} \text{ s}^{-1}) - 2.17 \cdot 10^{-19} \text{ J}$; Solve for J

Solution

$$K_{\max} = (6.63 \cdot 10^{-34} \text{ J}\cdot\text{s})(7.09 \cdot 10^{14} \text{ s}^{-1}) - 2.17 \cdot 10^{-19} \text{ J} = \left(6.63 \cdot \frac{7.09}{10} - 2.17\right) 10^{-19} \text{ J}$$

$$K_{\max} = 2.53 \cdot 10^{-19} \text{ J}$$

Answer: $2.53 \cdot 10^{-19} \text{ J}$.

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