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(Eantison 3.23)

$$\begin{cases}
0.65 \text{ eV} = hf - \beta = \frac{hC}{1} - \beta \\
1.69 \text{ eV} = hf - \beta = \frac{hC}{16} - \beta
\end{cases}$$

=>
$$0.65eV + 1.69eV = hc(\frac{1}{11.4} + \frac{1}{1.5})$$

$$= \frac{0.65eV + 1.69eV}{C(\frac{1}{1.4} + \frac{1}{1.5})} = \frac{-1.041 \cdot 1.6 \cdot 10^{-14} \cdot 5}{2.998 \cdot 10^{4} \cdot 5 \cdot (\frac{1}{4.3 \cdot 10^{-2}} + \frac{1}{3.1 \cdot 10^{-2}})} = \frac{(.57.10^{54})}{3.1 \cdot 10^{-2}} = \frac{1.041 \cdot 1.6 \cdot 10^{-14} \cdot 5}{3.1 \cdot 10^{-2}} = \frac{1}{3.1 \cdot$$

$$= \frac{1}{12} = \frac{hc}{12} + 1.69eV = \frac{(6.57.10^{-34}5) \cdot (3.498.108 ms^{-1})}{3.1.107} + 1.69eV$$

$$= \frac{6.35 \cdot 10^{-19} \text{ J} + 1.69 \text{ eV}}{1.69 \text{ eV} - 1.69 \text{ eV}} = 2.38 \text{ eV}$$