

### Answer on Question #69885 Physics / Other

What would the frequency be of a violet light wave with wavelength of  $\lambda = 410.17 \text{ nm}$ ?

**Solution:**

The relationship between the frequency and wavelength is

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

So

$$f = \frac{c}{\lambda} = \frac{3 \times 10^8}{410.17 \times 10^{-9}} = 731.4 \times 10^{12} \text{ Hz.}$$

**Answer:**  $731.4 \times 10^{12} \text{ Hz.}$

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