

**Answer on question #68430, Physics / Other**

**Question** what is the frequency of a radio wave that has a wavelength of 3.65 meters?

**Solution** It is equal to speed of light divided by wavelength:

$$\nu = \frac{c}{\lambda} = \frac{3 \cdot 10^8}{3.65} \approx 0.822 \cdot 10^{-8} s^{-1} = 8.22 GHz$$