



Figure 8.1. Electromagnetic radiation. The wavelength (λ , nm) and frequency (ν , Hz) are related by $c = \lambda \cdot \nu$, where c is the speed of light. From the equation $E = h \cdot \nu = h(c/\lambda)$, the energy level is higher for electromagnetic radiation with higher frequencies or shorter wavelengths. The range of electromagnetic radiation that is visible to the naked eye is called visible light.