**HW (5)**

1. **The**[**Aurora Borealis**](https://www.thoughtco.com/causes-aurora-borealcolors-607595)**is a night display in the Northern latitudes caused by ionizing radiation interacting with the**[**Earth's magnetic field**](https://www.thoughtco.com/the-south-pole-1434334)**and the upper atmosphere. The distinctive green color is caused by the interaction of the radiation with oxygen and has a wavelength of 5.577 nm .**
   * 1. **What is the frequency of this light?**
     2. **What is momentum of this photon?**
     3. **Calculate the energy of this photon?**
2. **The red light from a helium-neon laser has a frequency of 4.74 x 10​14 Hz.** 
   * 1. **what is the wavelength of helium-neon?**
     2. **What is the momentum ?**

**C) What is the energy of one photon?**