

34.6: General Questions

1. Hydrogen has one energy level available when it is in the ground state. However, hydrogen is able to emit multiple lines of color when voltage (energy) is added. Explain what must occur for hydrogen to be able to emit multiple colors in the emission line spectrum.
2. In which case must an atom lose more energy, when it emits a color of light that has a shorter wavelength or when it emits a color of light that has a longer wavelength?

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