<u>Quiz 29.1A</u>

Light with a wavelength of 422 nm illuminates a metal surface. Electrons are observed to escape from this surface with a maximum velocity of 7.25×10^5 m/s.

- a) What is the maximum wavelength photon necessary in order for electrons to escape the metal?
- b) If the wavelength of light is cut in half to 211 nm, what is the resulting maximum velocity of the escaping electrons?