

Review Questions

Just a couple questions to help me study for the upcoming quiz

Scattering

- how is light traveling through the air polarized?
- why is the polarization of light being scattered only partial?
- why is the maximum polarization of light occurring perpendicular to the light's original direction

Quantum

- What 2 pieces of information are needed to know the kinetic energy of an electron ejected from a piece of metal?
 - 1. the amount of energy in a given photon of light 2. the work function of the material - how much energy it takes to eject an electron.
 - what is the kinetic energy of an electron released from a copper plate hit with 275 nm light
- does light have momentum?
- what is the formula for the amount of momentum a photon has?
- what is the energy and momentum of each photon that a 375 nm laser emits?
- how does weins law help dispell the idea of the uv catastrophe?
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