

REVIEW QUESTIONS

Review Questions

Q₁: What are the frequencies for the first three lines of the Brackett series?

Q₂: What is the ionization energy for hydrogen when the electron has already been excited to the $n=3$ level?

Q₃: An electron in the $n=5$ level of an H atom emits a photon of wavelength 1255 nm. To what energy level does the electron move?

Q₄: The human eye needs a minimum of 2.1×10^{-18} J of energy to trigger the brain. How many photons of
a) red light (7000 Å) are needed
b) blue light (4760 Å) are needed

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