

Lab Report for Atomic Spectra

Part A. Calibration of the Spectroscope

Table 1. Emission Spectrum of Mercury

| Color | Position from Center of Spectroscope (cm) | Wavelength (nm) |
|--------|---|-----------------|
| violet | 7 cm | 404.7 |
| blue | 4.6 cm | 435.8 |
| green | 15.6 cm | 546.1 |
| yellow | 18.2 cm | 579.0 |

Equation of best fit line from Excel ($\lambda = mx + b$, where $x = \text{position}$):

$$\lambda = 0.0745x - 25.261$$

$$R^2 = 0.9121$$

Your instructor may ask you to attach a copy of your graph. Check with your instructor to see if this is required.

Part B. Spectrum of a Polyelectronic Element

Table 2. Atomic Spectrum of He (Helium)

| Color of Selected Spectral Line | Position from Center of Spectroscope (cm) | Measured Wavelength (nm) (From Calibration Graph) | Actual Wavelength (nm) (From NIST website) | Percentage Error in Measured Wavelength |
|---------------------------------|---|---|--|---|
| violet + | 7.3 cm | -24.7 nm | 509.99829 | 104.8% error |
| blue | 7.8 cm | -24.7 nm | 509.99829 | 104.8% error |
| green | 12.3 cm | -24.4 nm | 509.99829 | 2446% error |
| yellow | 18.5 cm | -23.9 nm | 509.99829 | 2390% |
| red | 25.2 cm | -23.4 nm | 509.99829 | 2340% |

Atomic Spectra Lab Report Answers

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