

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

Jianjun Gao



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