

II. The Hydrogen Spectrum

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Central maxima angle measurement = -0.5

Color	Angle Measurement (degrees)	θ	$\sin \theta$	λ (from cal. curve)	Energy (from Eq. 3)	Calculated energy level transition (from Eq. 4)	Theoretical energy level transition
red	22.7	23.2	0.393	6861	2.867×10^{-19}	$3 \rightarrow 2$	
blue-green	16.4	16.9	0.290	5219	3.807×10^{-19}	$4 \rightarrow 2$	
blue-violet	14.6	15.1	0.260	4734	4.196×10^{-19}	$4 \rightarrow 2$	
violet	13.9	14.4	0.248	4541	4.375×10^{-19}	$4 \rightarrow 2$	

CALCULATIONS:
Equation 3:

$$\Delta E = \frac{hc}{\lambda} = \frac{(6.626 \times 10^{-34}) (2.998 \times 10^8)}{\lambda}$$

Equation 4:

$$\Delta E = 2.178 \times 10^{-18} \text{ J} \left(\frac{1}{n_2^2} - \frac{1}{n_1^2} \right)$$

red = $3 \rightarrow 2$
green = $4 \rightarrow 2$
blue = $5 \rightarrow 2$
violet = $6 \rightarrow 2$

Lab Manual For Chem 1211l

Donald Siegel



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