ASTRO 1020 Lab

L2: Atomic Spectra

Background Image Credit: Kelvinsong/Wikimedia

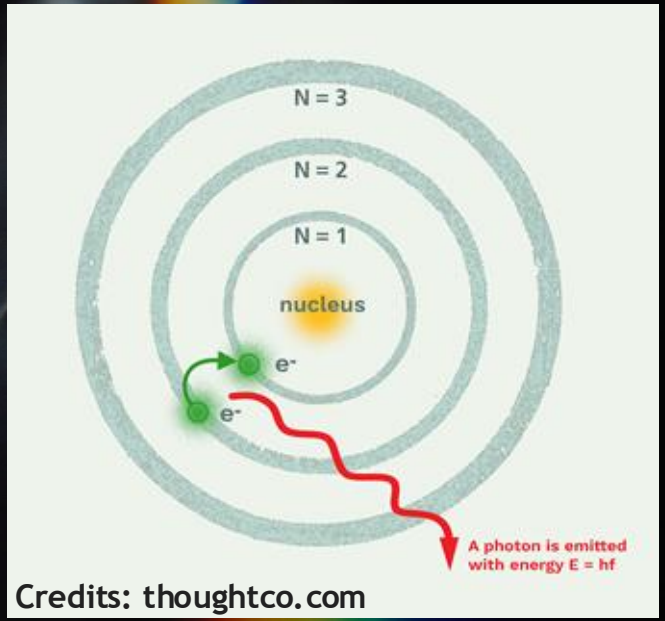
Grading

- All labs are scaled to be graded out of 10 points*

Points per question	Description
1.0	A correct answer with units and work shown. Answers that don't require work will be graded on completion
0.8	A correct answer without units or work shown
0.6	An incorrect answer with units and work shown
0.4	An incorrect answer without units or work shown
0.2	Some work shown without an answer
0.0	Not Attempted

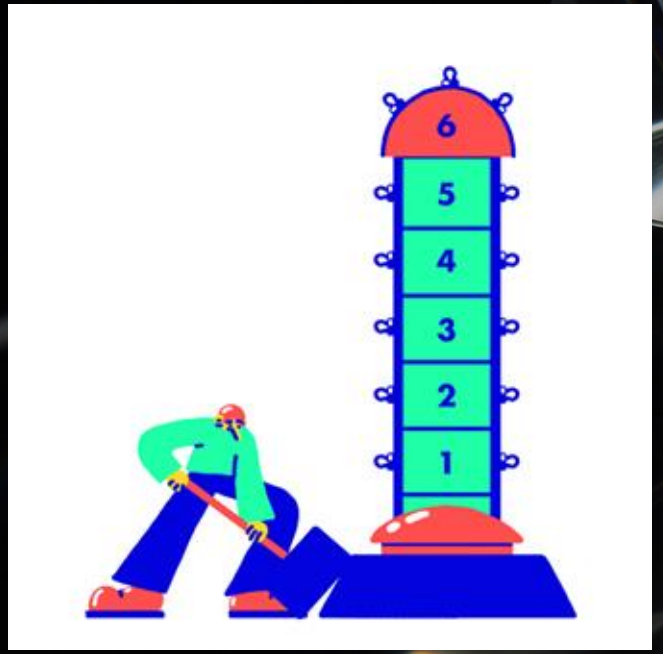
Things you need to know for Lab 2

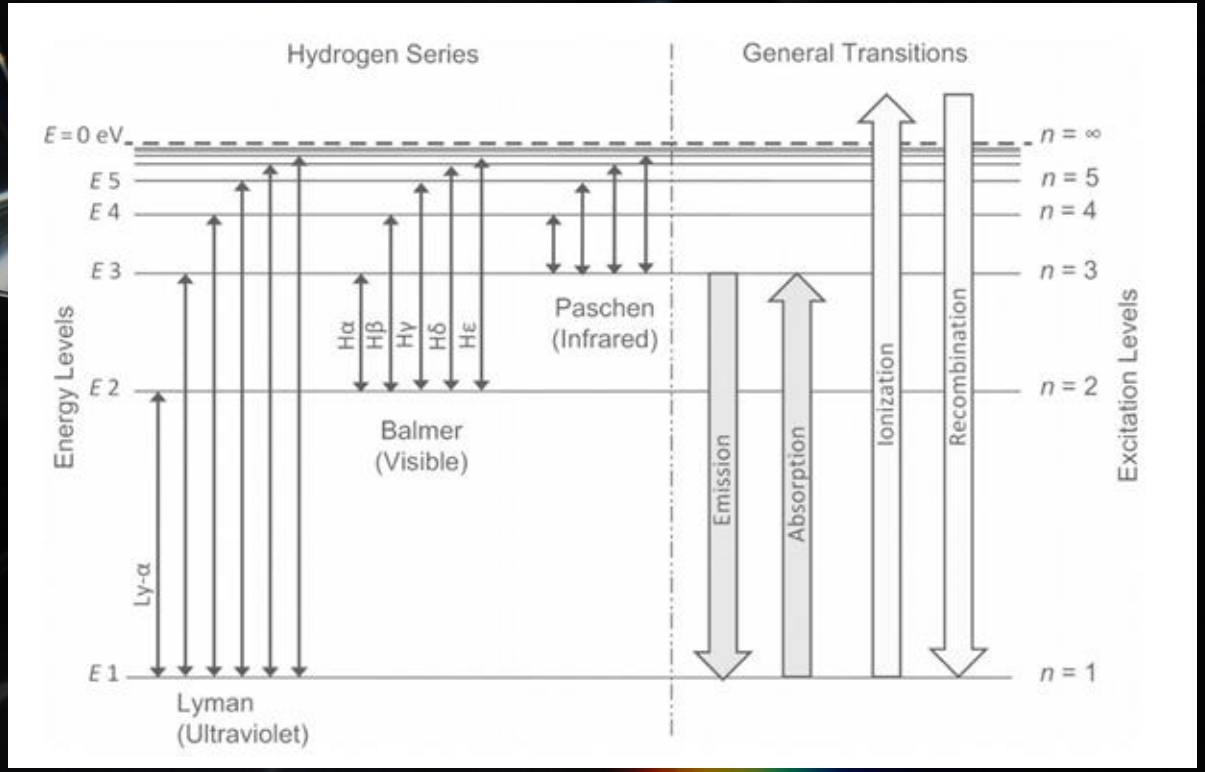
- Looking through diffraction lenses
- Absorption vs emission spectra
- Electron energy levels
- The Bohr Model



Credits: thoughtco.com

The Hydrogen Atom



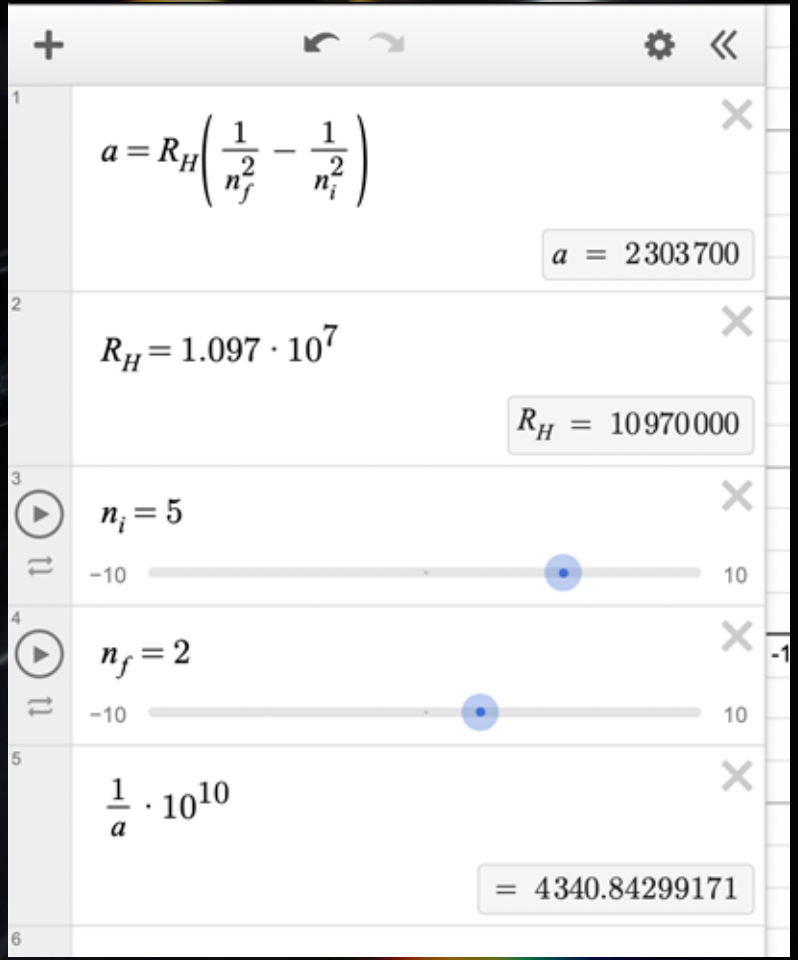


The Rydberg Equation

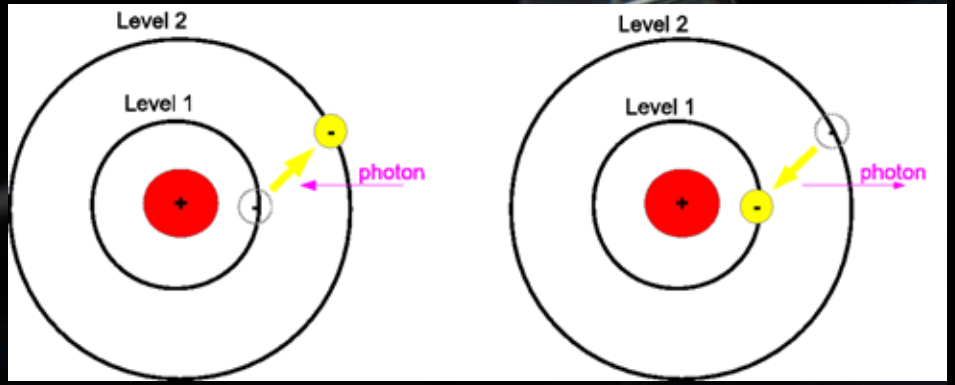
$$\frac{1}{\lambda} = R_H \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$$

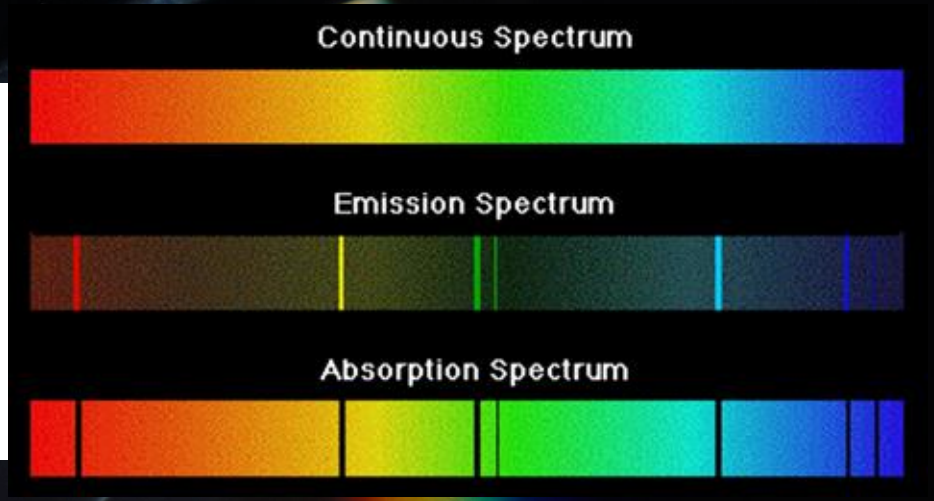
Desmos

- https://cutt.ly/RydbergCalculator



Absorption vs Emission





Credits: thephysicsmill.com


Questions?