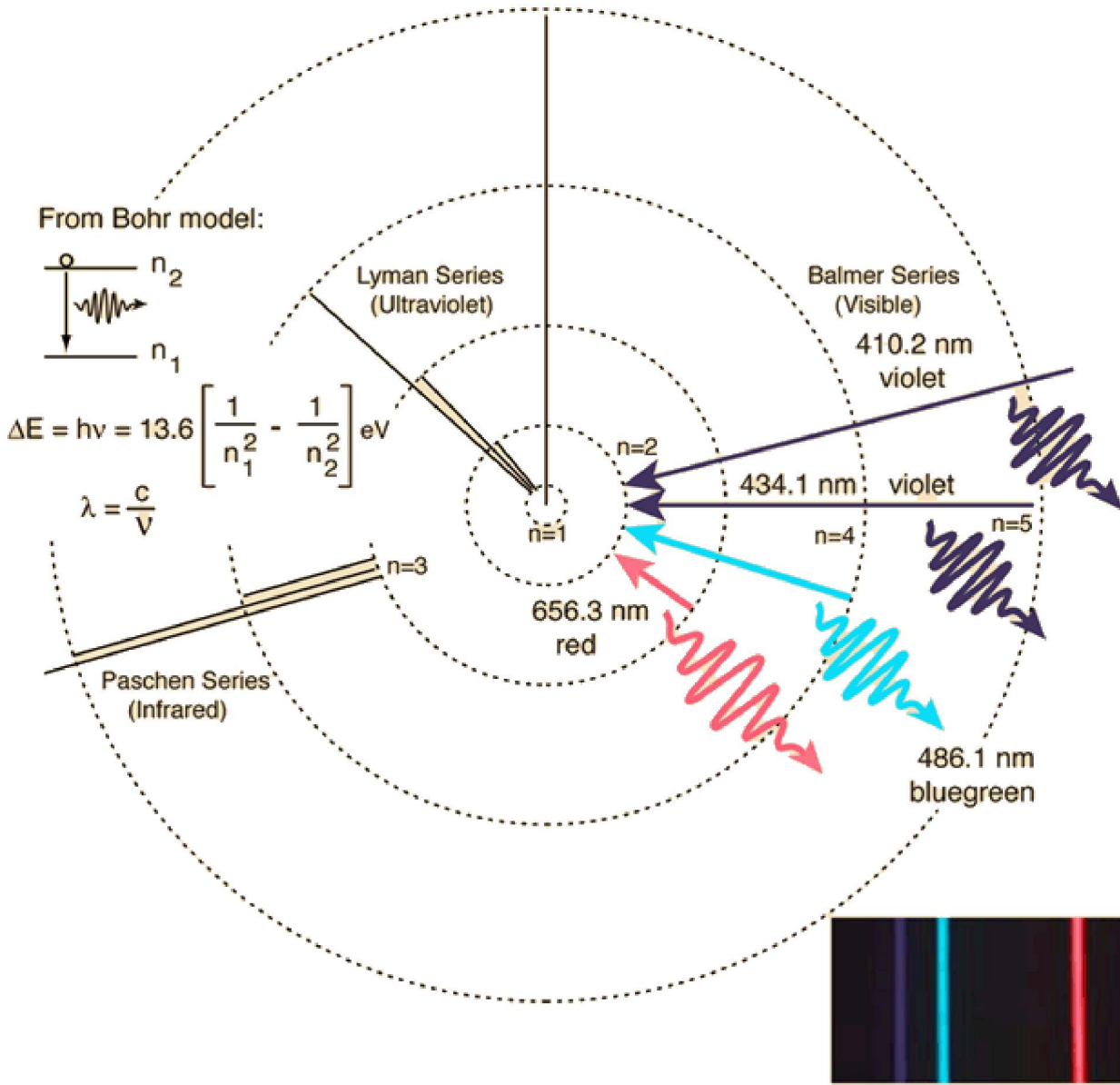


Hydrogen Spectrum



[Further splitting of hydrogen energy levels](#)

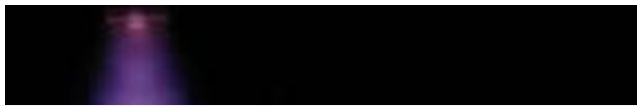
This spectrum was produced by exciting a glass tube of hydrogen gas with about 5000 volts from a transformer. It was viewed through a [diffraction grating](#) with 600 lines/mm. The colors cannot be expected to be accurate because of differences in display devices.

For atomic number $Z =$,

a transition from $n_2 =$ to $n_1 =$

will have wavelength $\lambda =$ nm

and [quantum energy](#) $h\nu =$ eV



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