The photon from n=2 to n=1 produces the shortest wavelegth.

The photon from n=3 to n=2 produces the medium wavelegth

The photon from n=4 to n=3 produces the longest whe layth

in the infaired spectrum. Spectrometer Lab Questions 4) Our Rydbug: 1×10+m-1

\(\frac{1}{2}\) = \(\frac{1}{1}\)^2 = \(\frac{1}{2}\)^2 \(\ 5) Our Rydberg: 1x10+m-1

2 - (1/2)-1 - (1/3)2 - (1/2)-1 (1x10+1) = 2.06x10-6

M one dsind=m2, we find 2, our desired wavelength These are the 10 questions I chose: 8) E=hf = hc Planck's constant: 6.626×10-34 J.s $[L]=[r\times p]=m.\frac{mkg}{s}=\frac{m^2kg}{s}$ 1 J.s = 1 m2k3 Eb = (6.626×10-34 J.s)(300×108m/s) = 4.97×10-19 J or 3.11eV E = (6.626×10-34 J.5)(3.00×108 m/s) = (3.31 ×10-19 J or 207eV blue photon: 400 nm = 600 x10 m M - 91×009 +hos, [h] = [L] PHYS 465 Dr. Choudhary
10 September 2017 medium wavelegt. longest we length.

6)
$$\Delta E = \frac{1}{6\pi^2} \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^2} \right]$$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^2} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{8\pi^2} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_e^4} \right]$
 $R = \frac{m_e e^4}{1} \left[\frac{1}{n_e^4} - \frac{1}{n_$