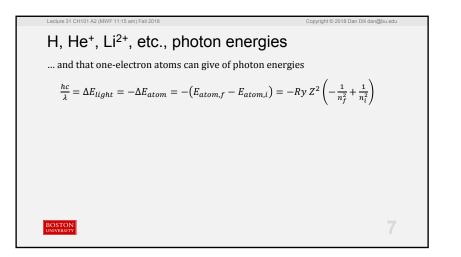
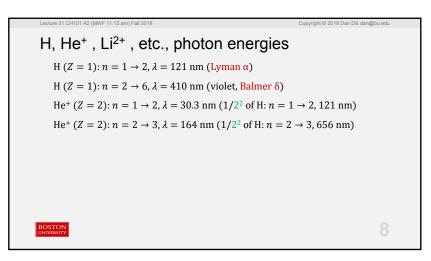
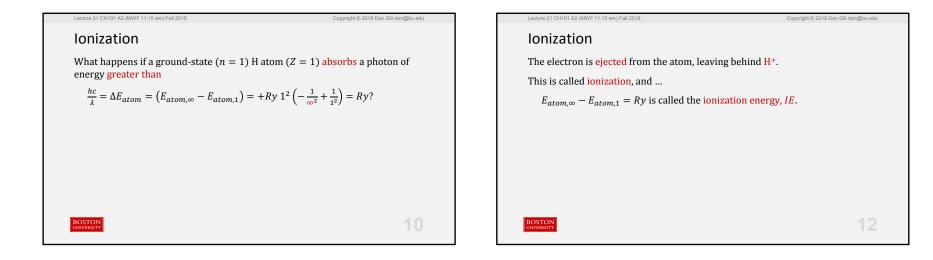


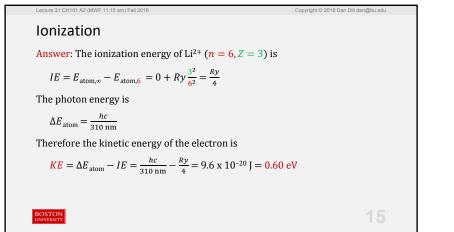
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ionization energy of Li^{2+} ($n = 6, Z = 3$) by 310 kinetic energy	nm light produces electrons of
$\frac{KE}{KE} = \Delta E_{\text{atom}} - IE = \frac{hc}{310 \text{ nm}} - \frac{Ry}{4} = 9.6 \text{ x } 10^{-2}$	20 J = 0.60 eV
What are three changes that would result in le	ss kinetic energy of the electron?
Increase the wavelength if the light, lowerin	g the photon energy.
Prepare the electron in a cloud with lower p	rinciple quantum number n.
• Use a one-electron atom with more protons	and so greater atomic number Z

