Problems discussed in the videos:

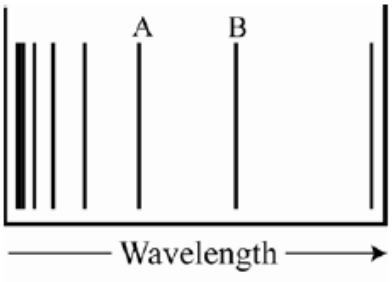
Video (3)

13.) How much energy is released (in Rydbergs) when a He^{+1} ion relaxes from its 2p state to its 1s state?

A) 1 B) 2 C) 3 D) 4 E) 5

Videos (4)-(5)

16.) The figure below represents part of the emission spectrum for a one-electron ion in the gas phase. The lines shown are the result of electronic transitions to the n=3 state. The wavelength of line B is 142.5 nm. What is the identity of the ion?



A) He^{+} B) He C) Li^{2+} D) Be^{3+} E) Be^{2+}