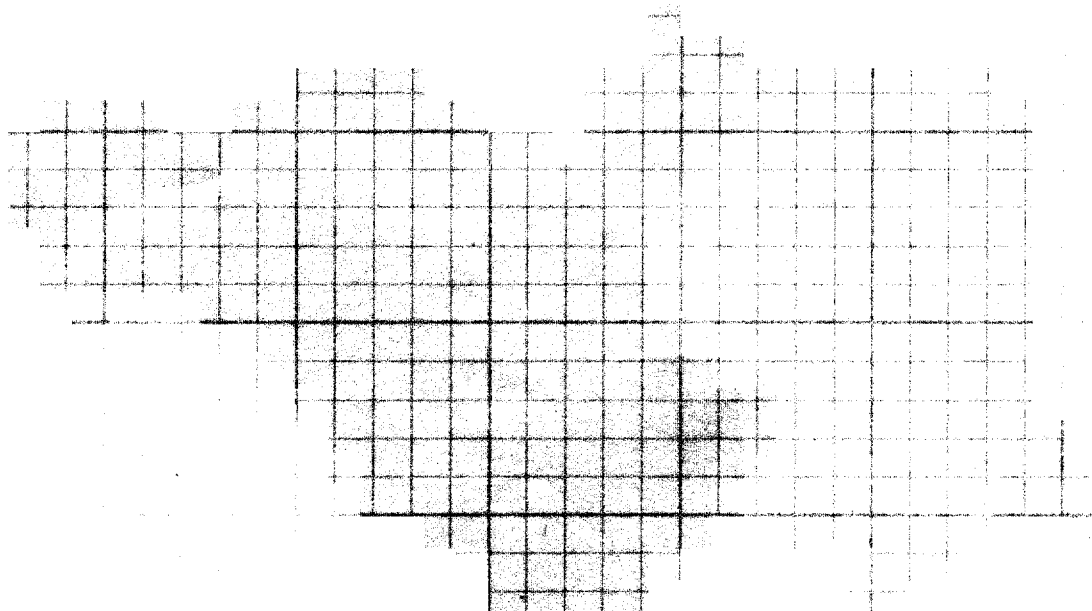


Practice Quiz

① List the following types of transitions in order of increasing energy
vibrational, rotational, electronic

② Give 'ballpark' ranges of energy (in cm^{-1}) for the types of transitions in question 1. Also give the type of light (electromagnetic radiation) used to cause these transitions

③ Draw a picture of what happens during absorption and subsequent emission of ultraviolet or visible light. Include a typical absorbance and fluorescence spectrum. What is the Stokes shift.



④ What does the Born-Oppenheimer approximation do for us?