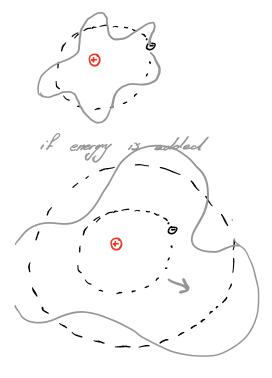
Consider an atom with an orbiting electron with a wavelength proportional to its energy



in order to line ups the electron will reach a higher wavelength but the wavelength will interfere with itself, and the electrons orbit will reduce, the electron will oscillate until it reaches an orbit with a continuous non-destructor wavelength.

The electron cocillation will course electro magnetic waves, that why the atoms appears to absorb and resemit light, the electron interacts with with light and after interacting with the light ascillates entil it reaches a stable orbit, in reaching that state orbit, the electron ascillates in a rapid Pashion that cause the emission of emwords — light.