# A Radiation Course based upon Numerical Methods

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# Exercise No. 2 – Vibration

1. Find the fundamental band of CO and plot its spectrum.
   * Determine the band center frequency from your plot.
   * There is some “pollution” in the P-branch that comes from lines of 13CO. Recalculate the spectrum for only the main isotopologue.
2. Explore the spectrum of either H2O or CO2. Can you find the different vibration bands?