

# Electric Quadrupole Spectra of Diatomic Molecules

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- Breakdown of the electric dipole approximation
- Implementation of quadrupole linestrengths in Duo spectroscopic program
- Validation for H<sub>2</sub> infrared quadrupole spectrum
- CCSD(T)/MRCI calculations of CO/HF QMF
- Prediction of infrared HF and CO quadrupole lines
- O<sub>2</sub> electronic quadrupole linelist in preparation + magnetic dipole

