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CHAPTER 5 - SYMMETRY AND VIBRATIONAL SPECTROSCOPY 5.1 Potential Energy Diagrams The energy of a molecule can be approximated as $E = E_{rot} + E_{vib} + E_{elec} + E_{tran} + E_{spin} + E_{nucl}$. If we make the approximation that the wavefunction is separable, then the problem can be

CHAPTER 5 - SYMMETRY AND VIBRATIONAL SPECTROSCOPY 5.1

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Further, due to symmetry and nuclear spin statistics of the two equivalent atoms in N₂ all levels are separated into two distinct groups corresponding to complexes formed from ortho-or para-N₂.

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