

## Charge-Transfer Excited States

Quantum chemists have developed a large number of methods for predicting the structure and properties of molecules in their ground electronic states. The development of methods for excited states is much less mature and the problem of computing the excitation energies of charge-transfer excited states in large systems is a particularly serious one. In this project, we will study donor-acceptor complexes of various sizes and explore a range of modern techniques for predicting their charge-transfer excitation energies.

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