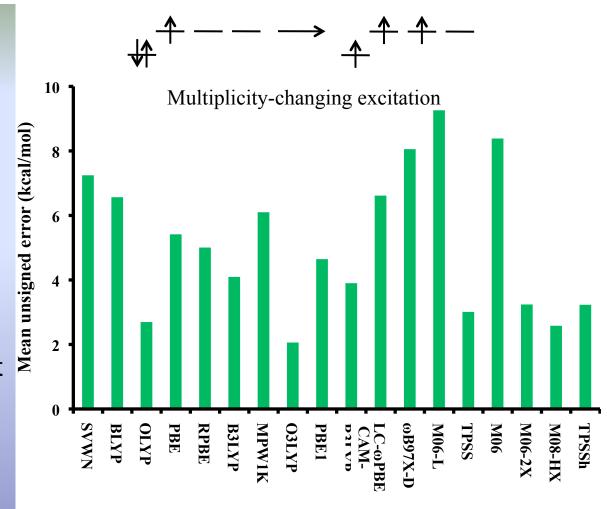


Density Functional Study of Multiplicity-Changing Excitations



- Multiplicity-changing excitations are important for reaction mechanisms and magnetic properties.
- They are difficult for DFT since they require a balanced treatment of exchange and correlation.
- 56 density functionals
 were tested against
 experimental results; most
 functionals give quite
 large errors—exceptions
 being OLYP, O3LYP, and
 M08-HX.



Yang, Peverati, Valero, Truhlar (U. of Minnesota), J. Chem. Phys. 135, 044118 (2011)