

Molecular Orbital Theory

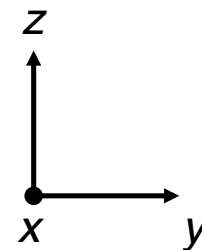
Flash Review

CHEM 371

Dr. Christopher B. Durr



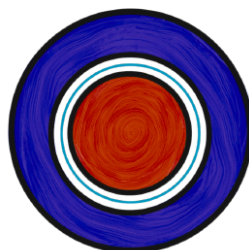
Atomic Orbitals



1s

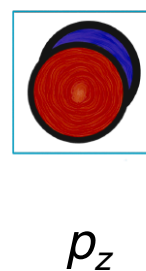
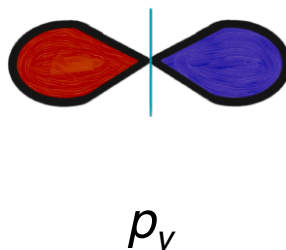
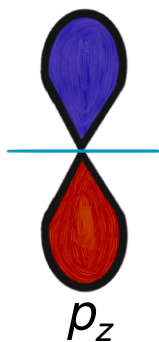


2s



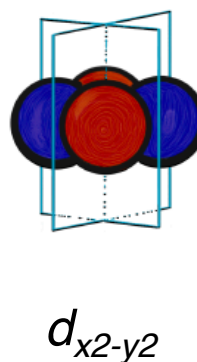
1 Radial Node

2p

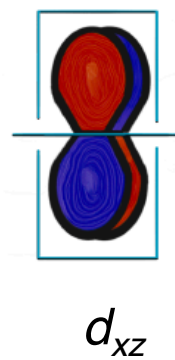
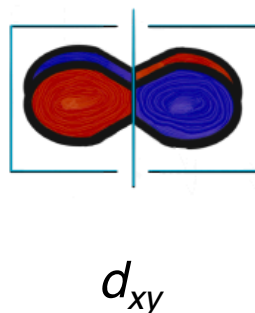
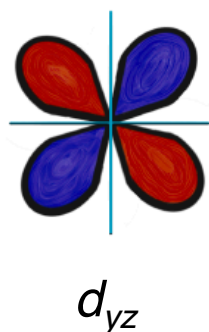


1 Planar Node

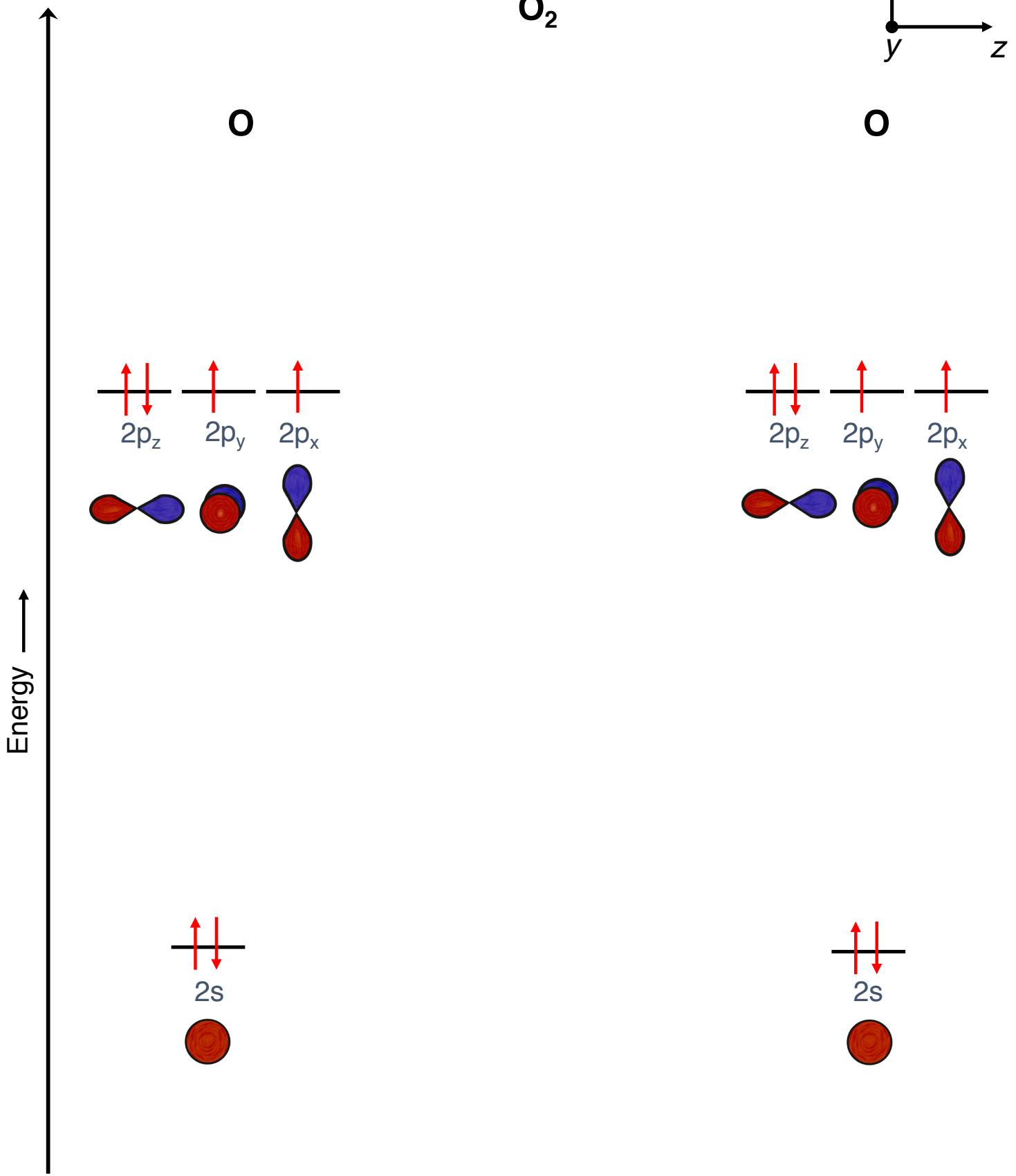
3d



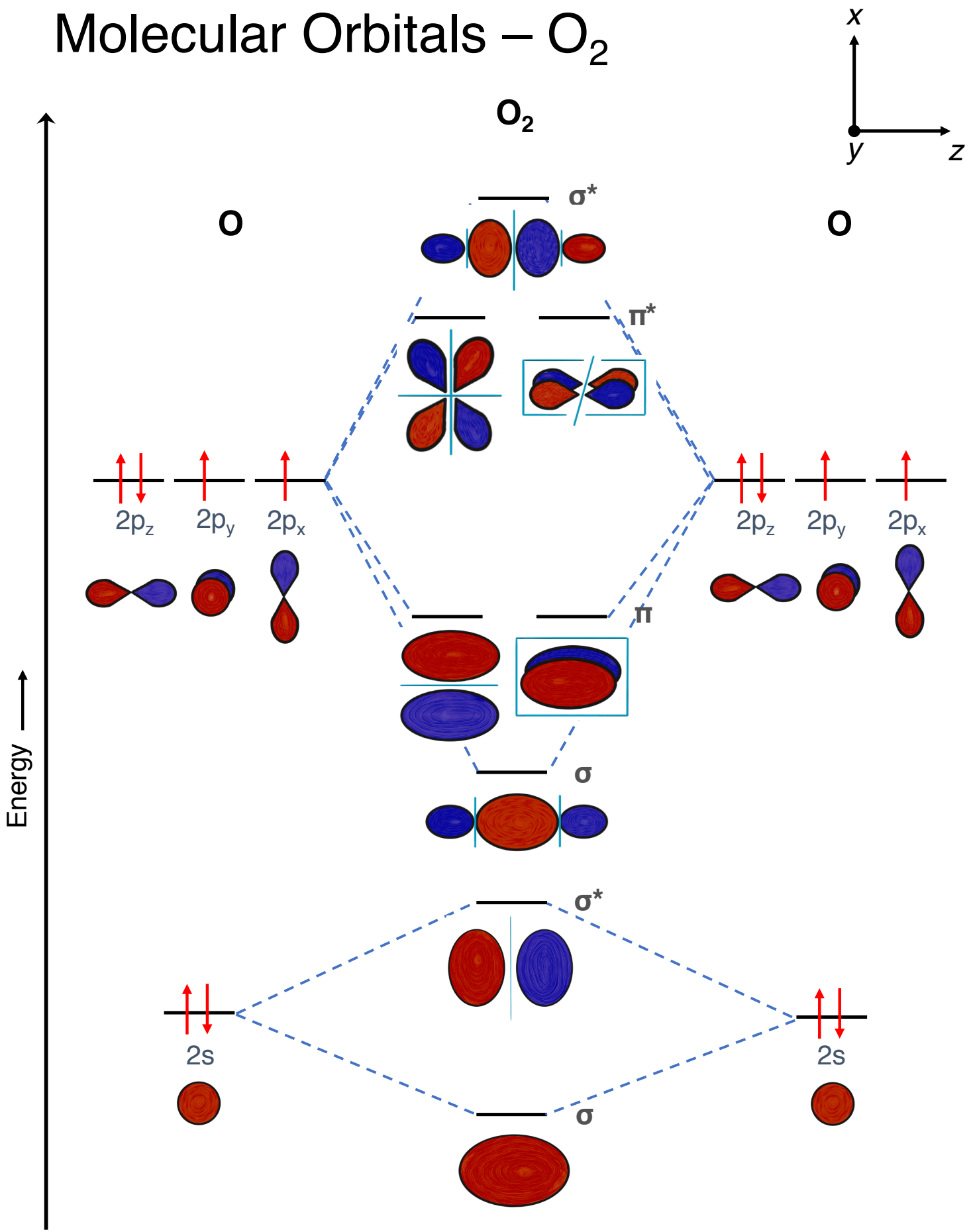
2 Planar Nodes



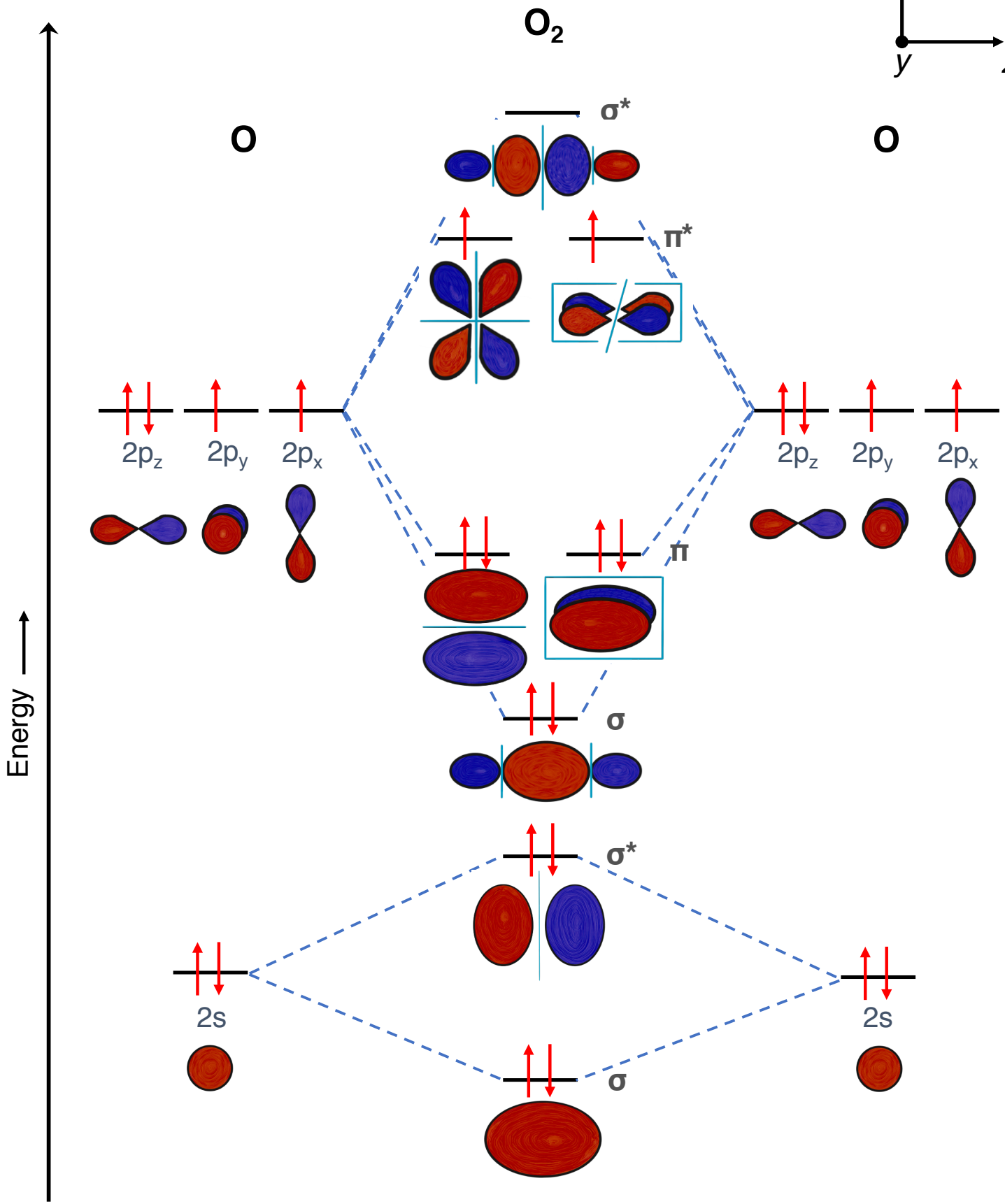
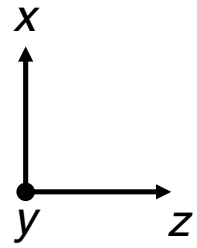
Molecular Orbitals – O₂



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Effect of Oxidation/Reduction

