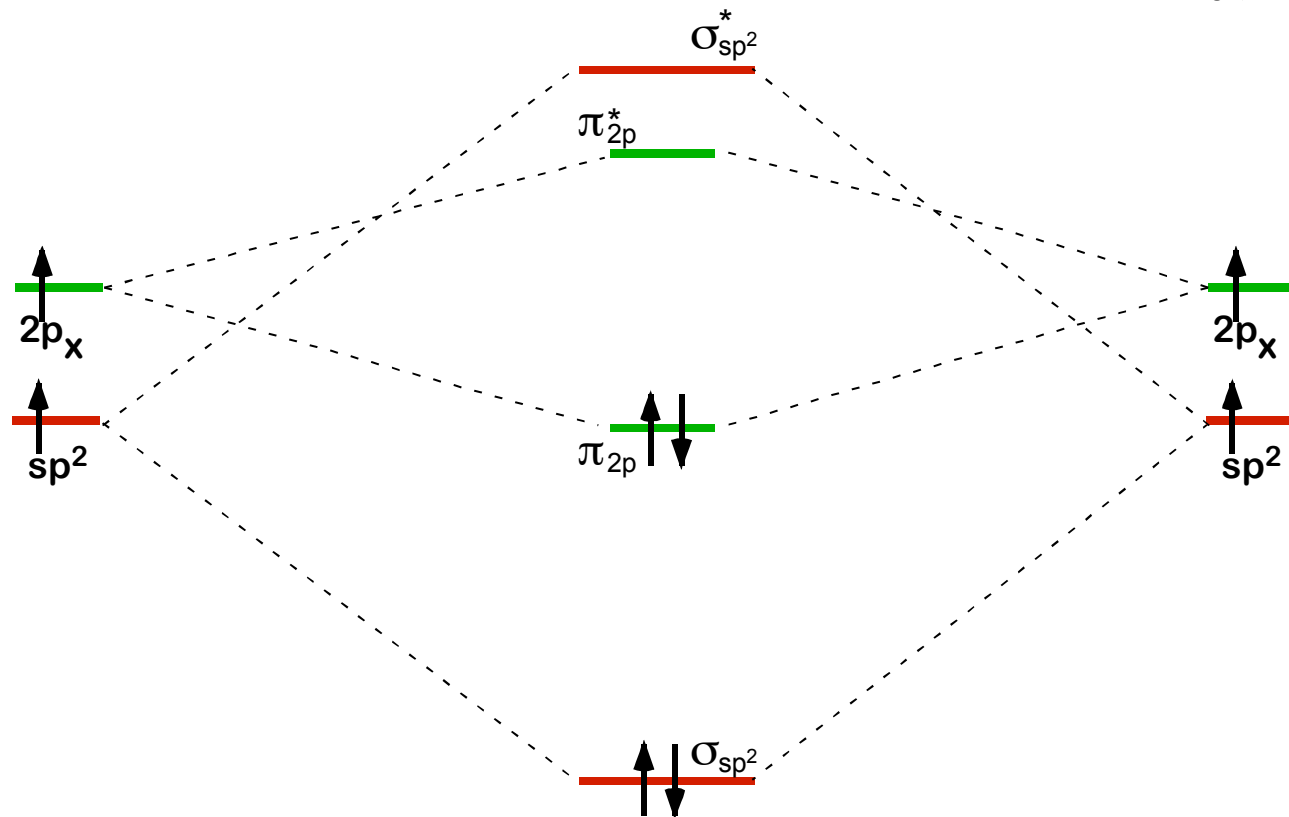
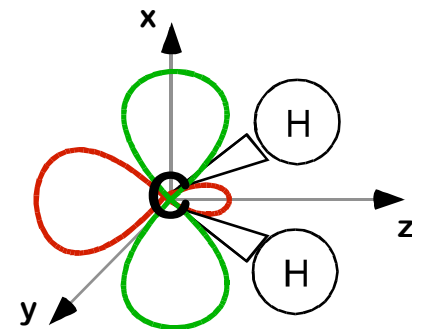
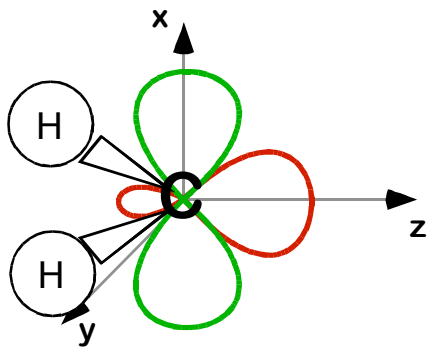


CH₂CH₂

$$\text{Bond Order} = (4-0)/2 = 2$$

4 electrons
between the carbons



Atomic Hybrid Orbitals

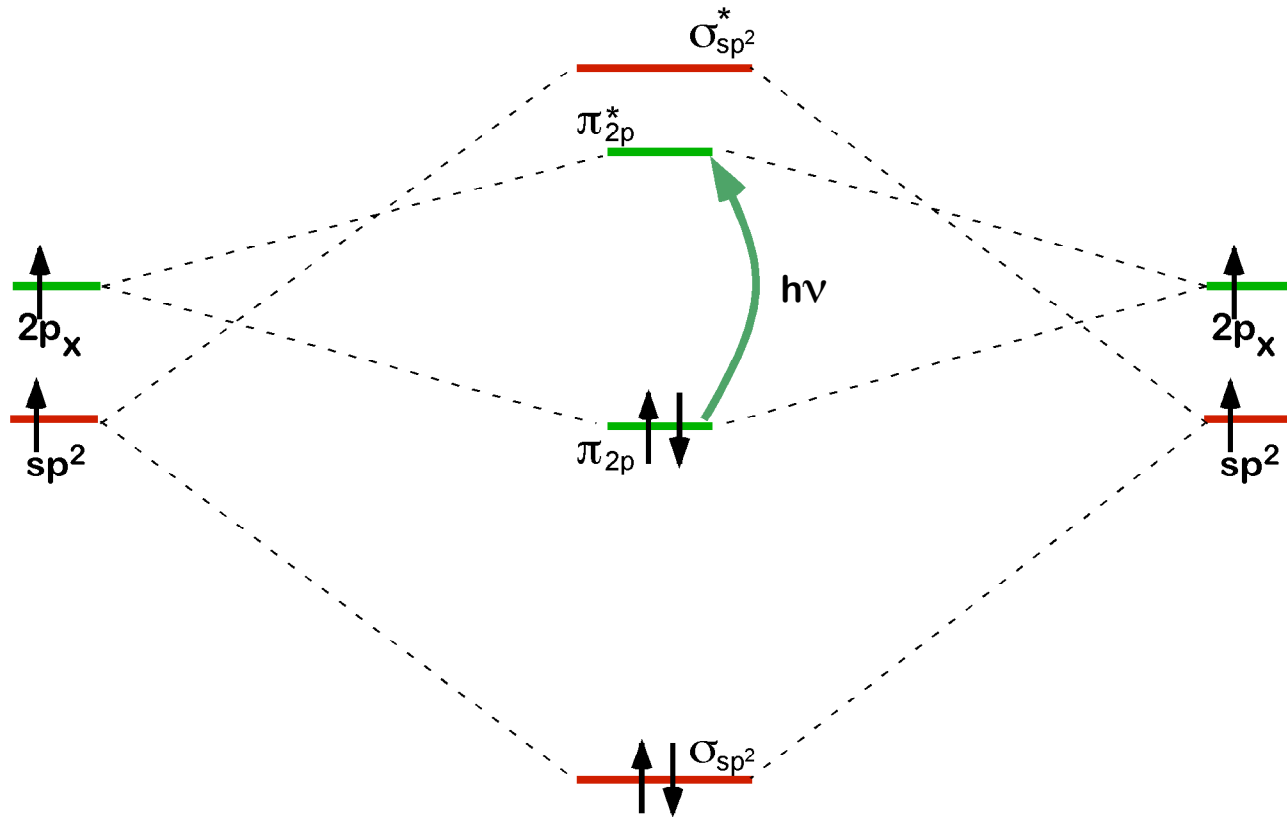
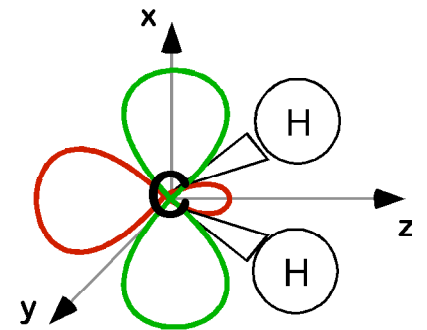
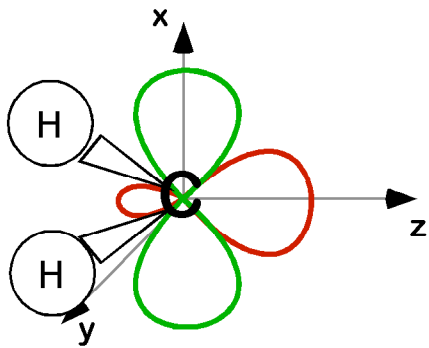
Molecular Orbitals

Atomic Hybrid Orbitals

CH₂CH₂

$$\text{Bond Order} = (4-0)/2 = 2$$

4 electrons
between the carbons



Atomic Hybrid Orbitals

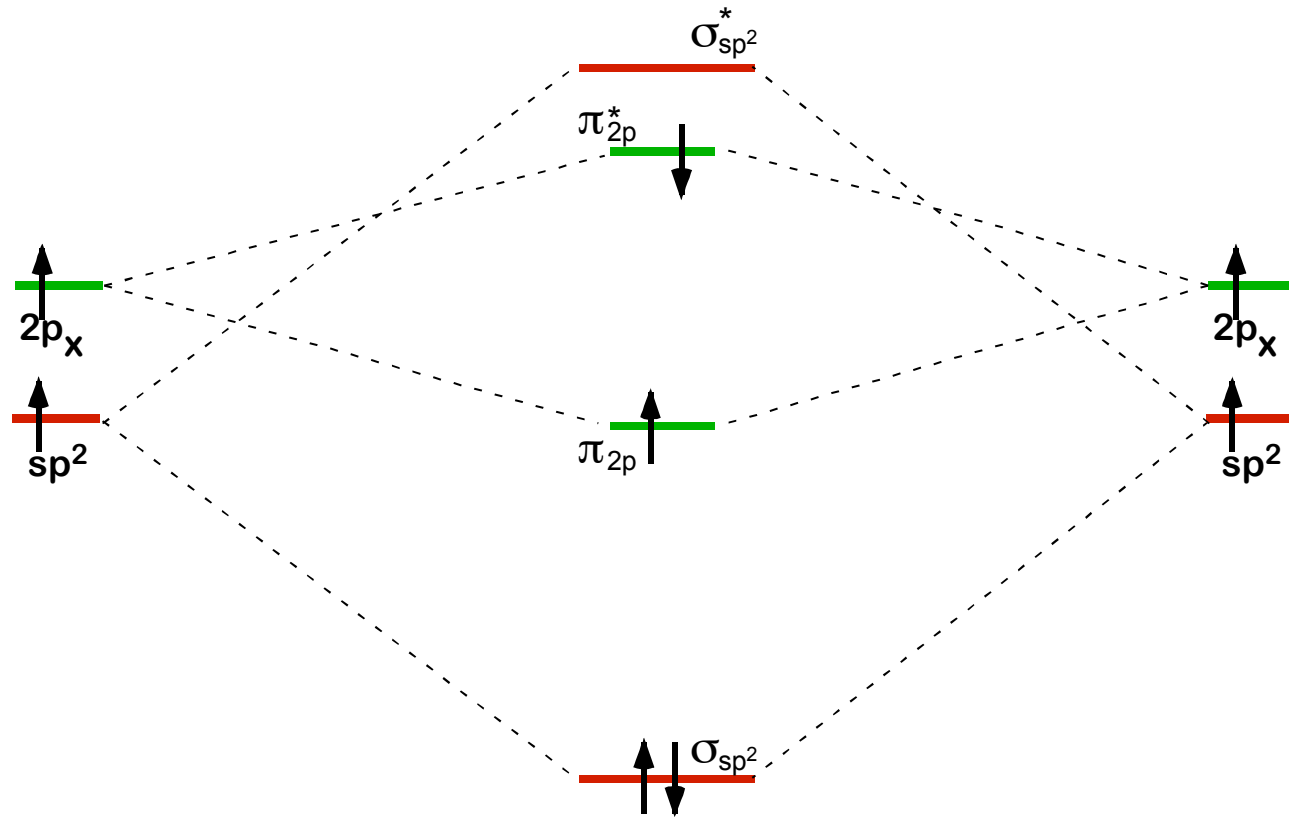
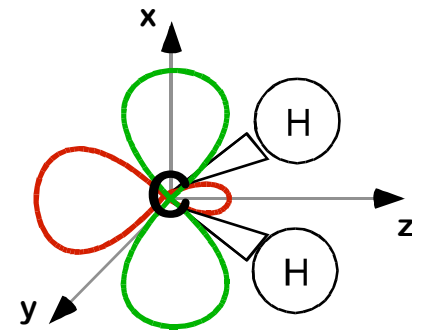
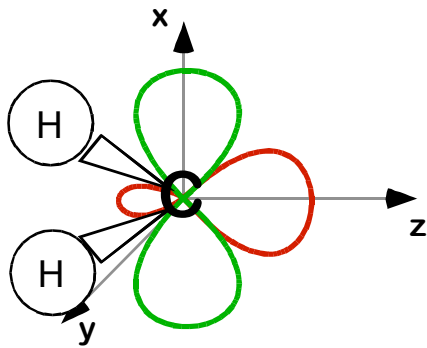
Molecular Orbitals

Atomic Hybrid Orbitals

CH₂CH₂

$$\text{Bond Order} = (3-1)/2 = 1$$

4 electrons
between the carbons



Atomic Hybrid Orbitals

Molecular Orbitals

Atomic Hybrid Orbitals