Lecture 2: Bonding Theories

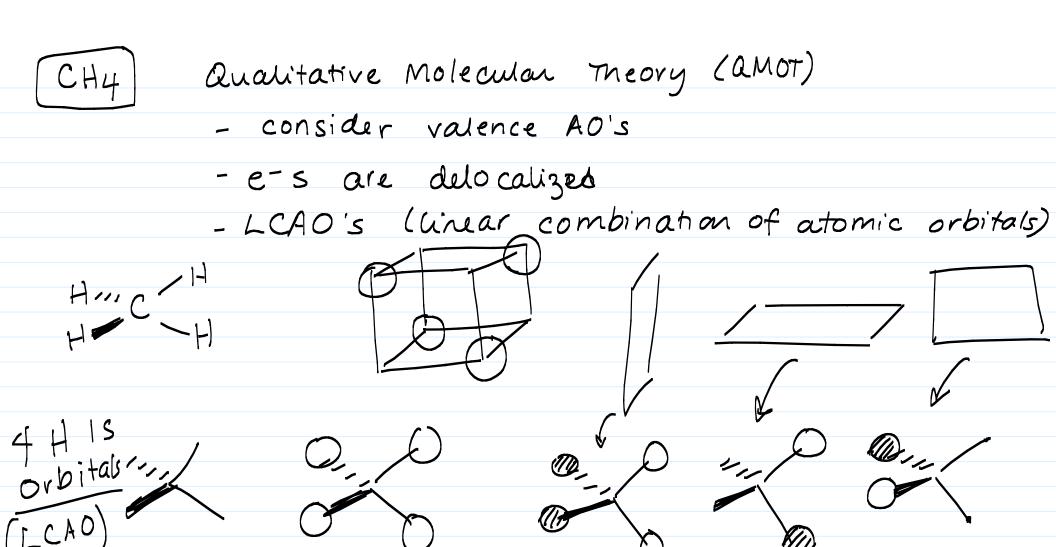
Note Title 9/1/2011

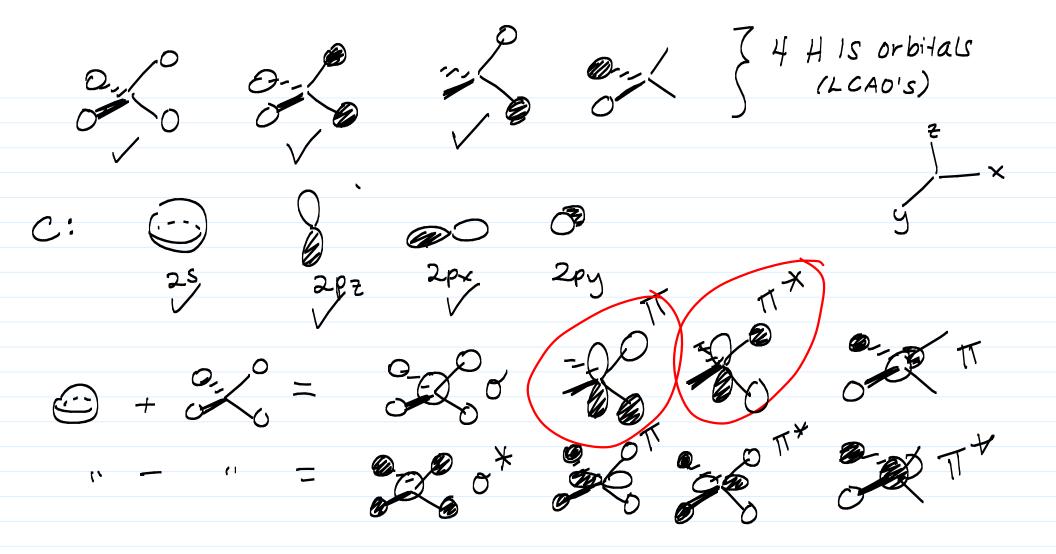
Announcements:

- 1) Problem Set 1 is posted on the course website. Due Thurs, 9/8 at the beginning of class.
- 2) Colloquium TOMORROW: Prof. Lars Gundlach, 4pm, 101 BRL

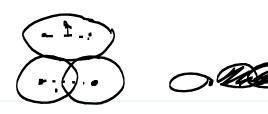
Today:

- 1) Qualitative Molecular Orbital Theory
- 2) Huckel Molecular Orbital Theory
- 3) Frontier Molecular Orbital Theory
- 4) Arrow-Pushing Mechanisms (if we have time)









e-probability is symmetric about bond oxis

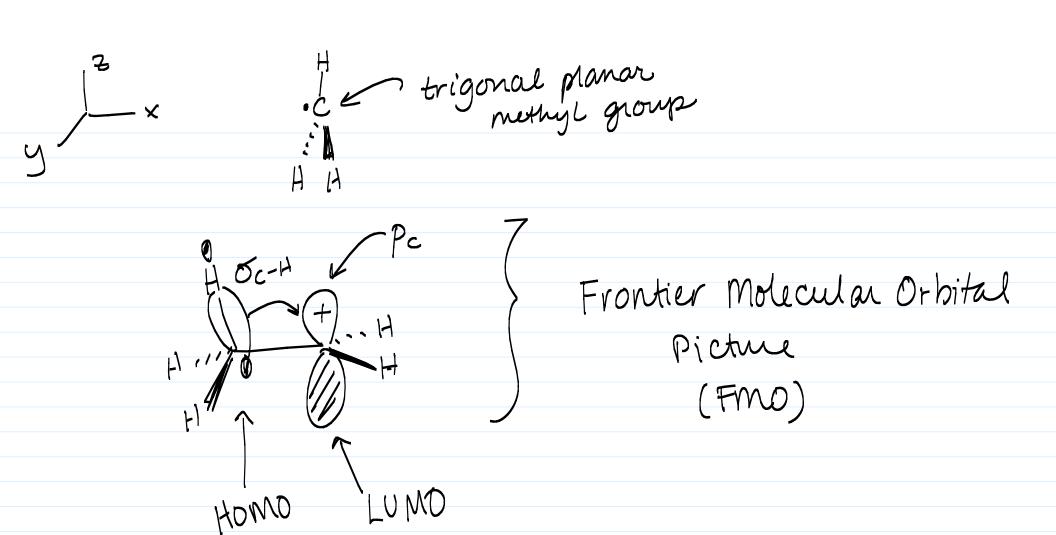
TT-bond:

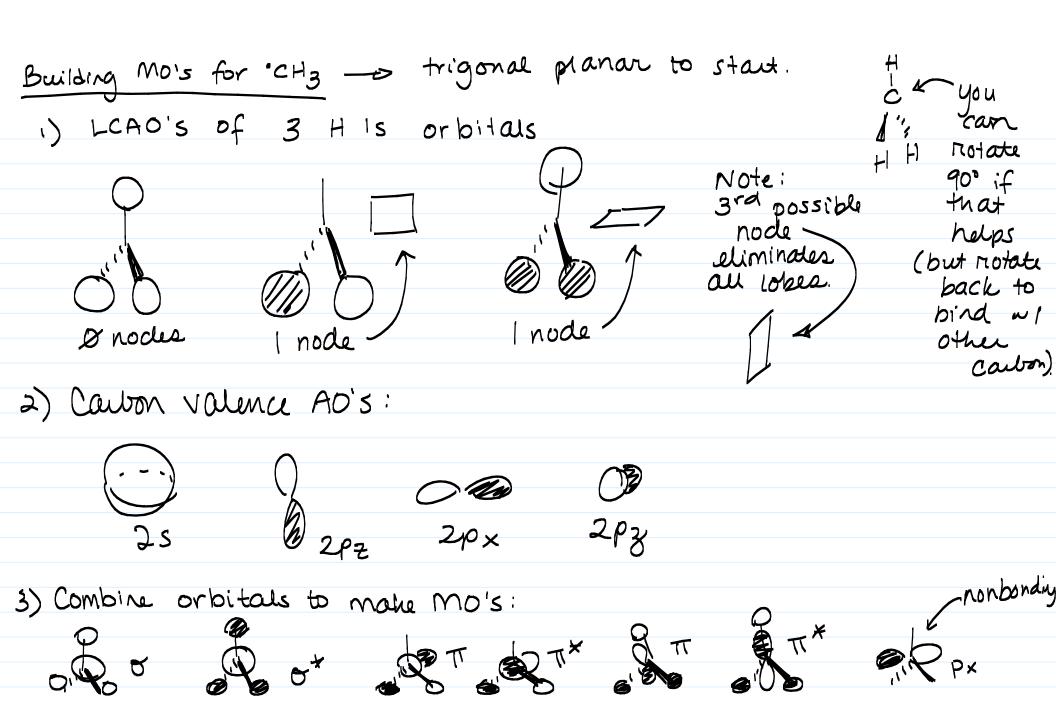


e-probability is asymmetic about band axis



LCAO'S 4×H





Arrange by energy: orbitale mix same symmetry. **⊕** ,... ⊢ planar