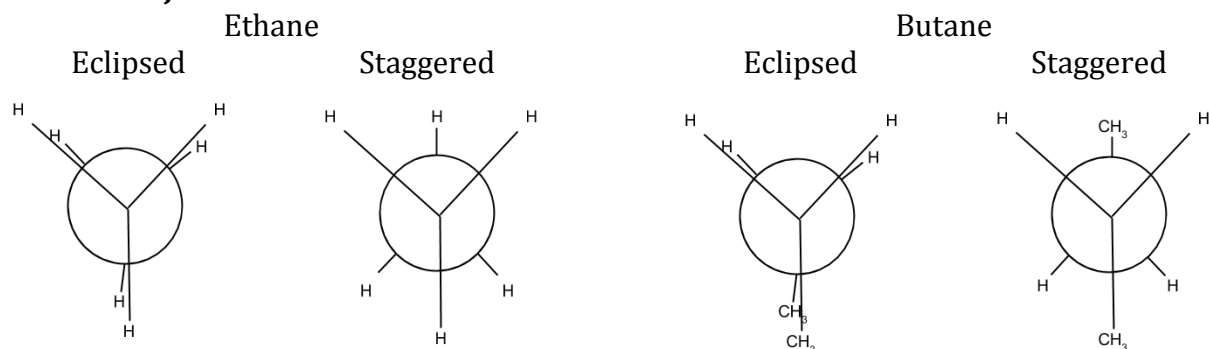


Conformations

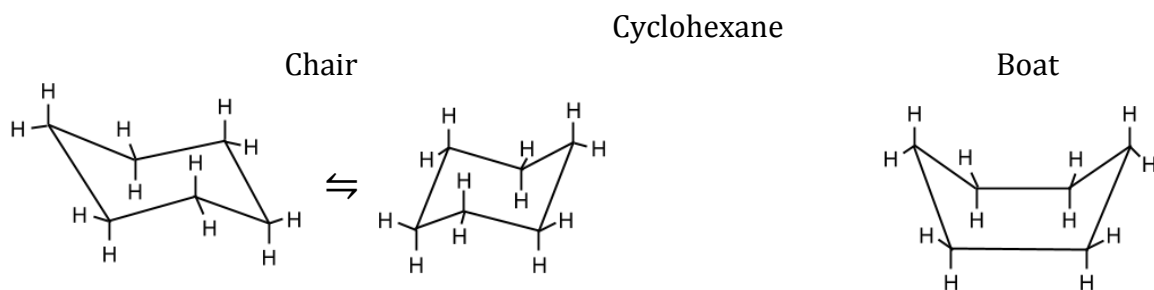
Eclipsed	One atom blocks view of one behind it	dihedral angle = 0
Staggered	No atoms block view of any behind them	dihedral angle > 0
Anti Conformation	Main groups maximally separated, most stable	dihedral angle = 180
Gauche Conf	Main groups separated by 60, 2 nd most stable	dihedral angle = 60

Newman Projections



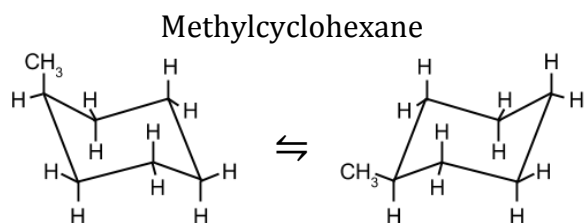
Electron clouds want to maximize distance (increase dihedral angle) between them
 Eclipsed conformation (wound conformation) has highest potential energy, therefore
 Conformation wants to unwind towards a staggered conformation in order to lower potential energy

Conformations

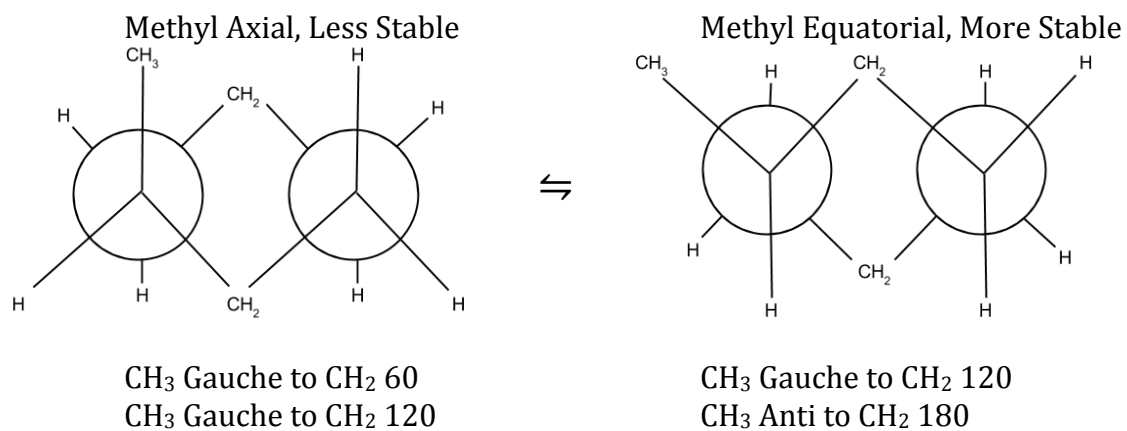


Axial Hs are perpendicular to plane of ring
 Equatorial Hs are parallel to some plane on ring

Conformation of ring with a constituent



Double Newman Projections



To draw double projections look at C head on from leftmost and rightmost 2 front positions