Lecture 10 - CHMARIO DO NOT switch REQUIRES chair = boat = chair between Eq. on left becomes axial on right. Eg on right becomes artal on left. a or B remain exactly the same. cyclohetane : For unsubstituted cyclohesene: -> Two forms are identical 9 egralin Must conside Keg. -> Keg = [chair #2] [chair #1] Kleg = I for cyclohexare

Typically contormer stable: More substituent in equation Egyptional is more stable.
2 (e. 1 1 Nb 70
Also depend on size.
Case of Monosubstituded Cycloheranes. Case of Monosubstituded Cycloheranes. Ch3 1) 3-diami
5 => Methyl cudoherane 13-diarral
H H (H3 H =) "repulsive-like"
The service of the se
H3C 11 = 11 11
EX => Methyl cycloherane (H3 H H3(++++++++++++++++++++++++++++++++++
More stable conformer AG'>0
More SI
More Staggered. CH2 from equatorial to
=5"Cost" of switching 10. CH3 from equatorial to
2 7 2 13
() DG (keg <1): Unfavorable.
() AGO (Keg71): Favorable. () AGO (Keg71): Favorable. BGO - describes to what extent gratorial form is favored. BGO - describes to what extent gratorial form is favored.
Disubstituted (yelohetanes: Conformational Energetics
Disubstituted Cy
Ex. 0 (Lis-1, 4-dimethyl cyclohesane)
() Des
CH3 CH3 Occors du to
Well = War institution
restriction.
(-) NG NG= 1.74+(-1.74)
. 0
K eg = 1

Nomenclature of Cycloalkany 1) Monosubstituded - Exactly what you expect 2) Disubstituded Methyl cycloteran 1- ethyl - 2 methyl perhane 3)34 Stereoisomers and Cycloalkanis Take of Rotation