C15-× (a) CH3(a) PREFERRED IF PREFERRED IF X Y CH3 IN SIEE X>CH3 IN JIZE trans- ISOMER IS MORE THERMODYNAMICALLY STABLE, SINCE BOTH CH3 AND X GET TO BE EQUATORIAL. 1,3-CH367 X(e) PREFER RED PREFERIED IF X<CH3 in size - has nothing to do with 'priority'

MOLECULE SPENDS ALL IT'S TIME HERE (>99.9.1.) ACTUALLY MORE STABLE THAN TRANS, ISOMER 1,4- ANALOGOUS TO 1,2-SO WHAT'S BIG? WHAT'S NOT 4- X: 4-0-H -in general, the more groups on the atom, the larger it is

## - Oxid equatorial - different CONFORMATIONS - LINTERCHANGE THESE CAN

CHAPTER 4- SOME FUNDAMENTALS.

ACIDITY

BROWSTED

Rules:

1. THE STRONGER THE ACID, THE WEAKER THE CONJ. BASE - CONVERSE IS TRUE, TOO

H20 = H+ + H0 Kg= 10-14 pk= 15.7

(H3C)3C-OH => H+ + (H3C)3C-O Kezu = 10 15.5 pk= ≈ 17

ACIDITY HEO > (H3C)C-OH

BASICITY (43c)3c-0 > HO

2. ACIDITY AND THE PERIODIC TABLE.