

Today

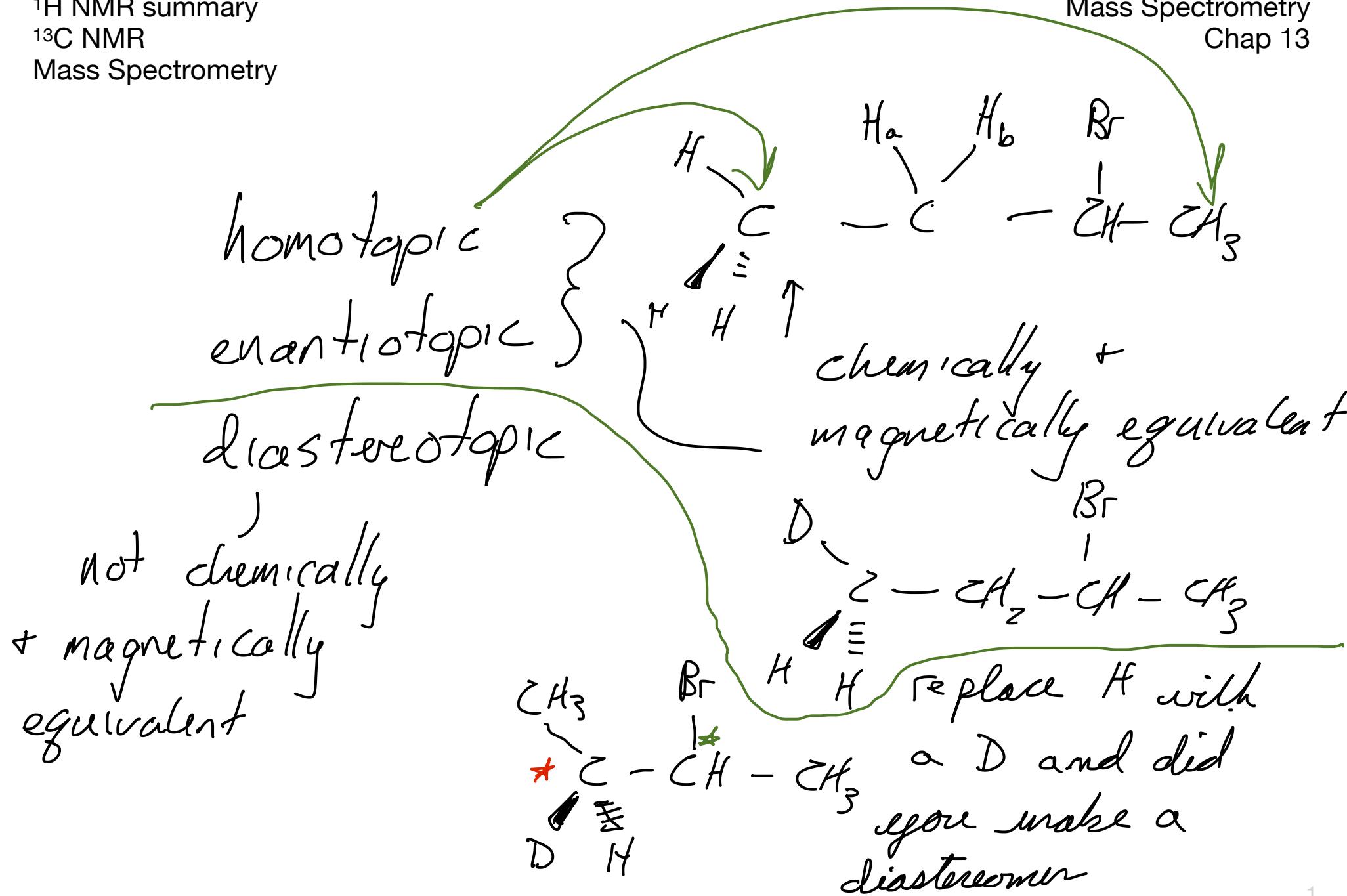
^1H NMR summary

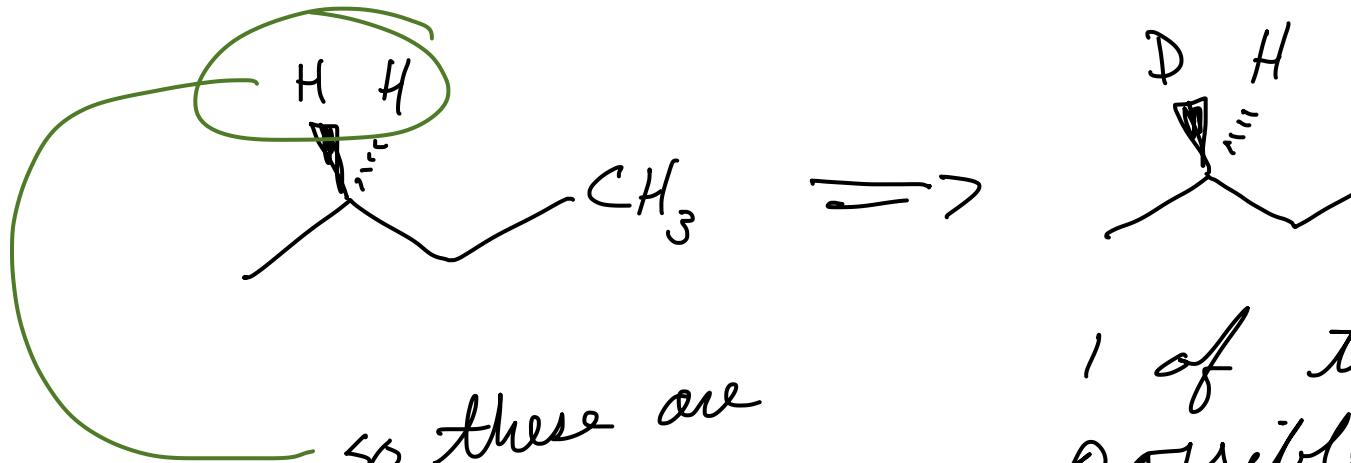
^{13}C NMR

Mass Spectrometry

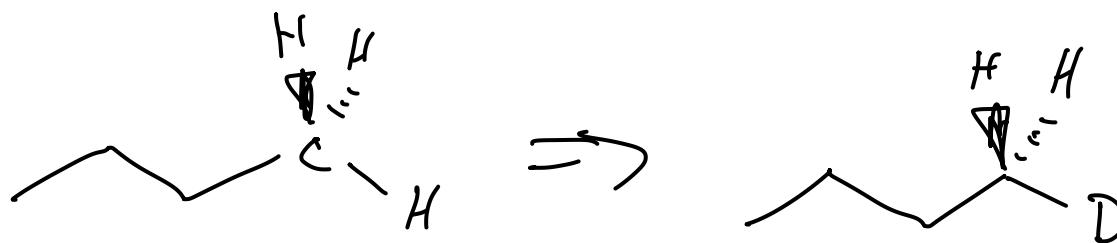
Next Class

Mass Spectrometry
Chap 13



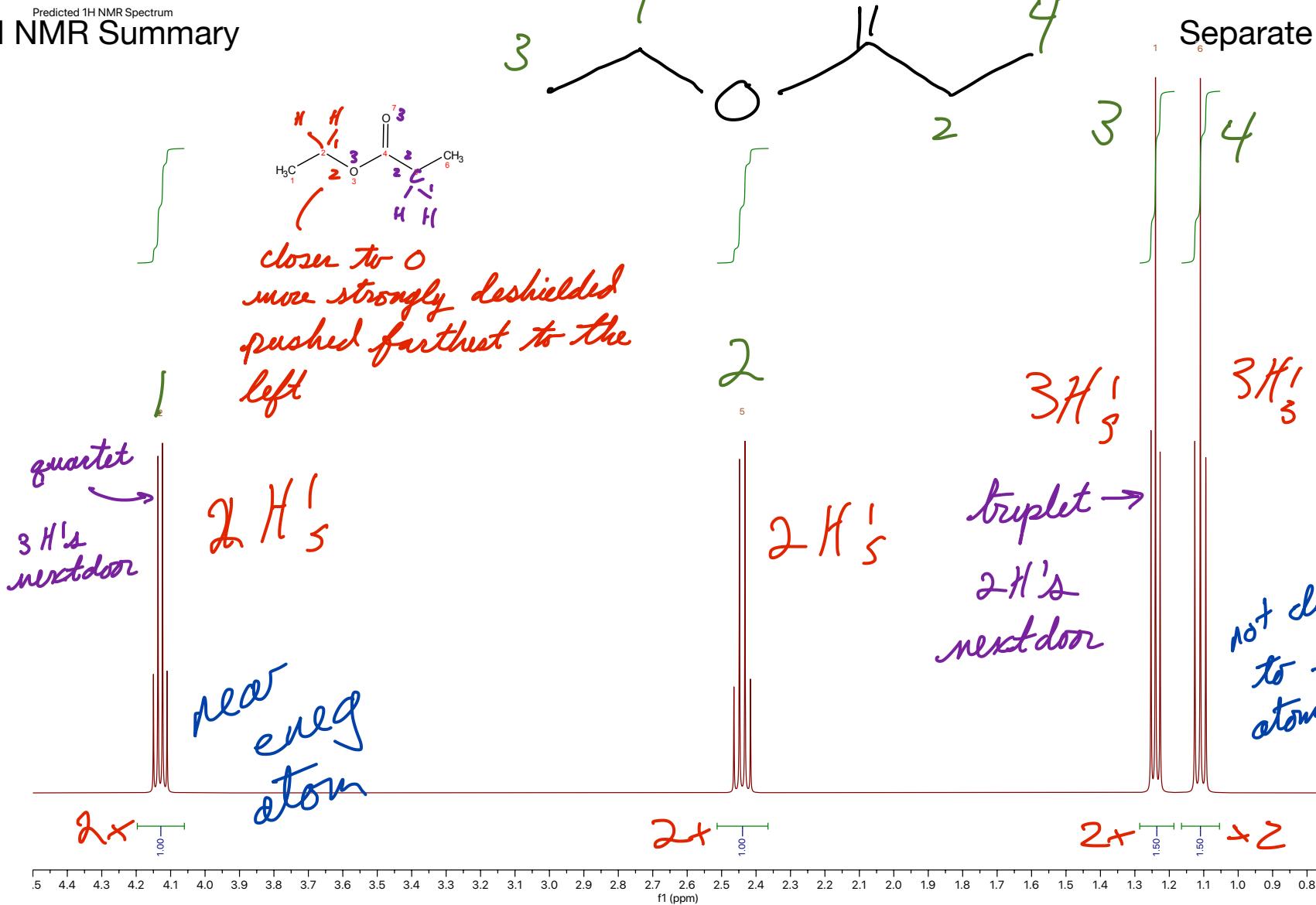


1 of two
possible
enantiomers



homotopic

¹H NMR Summary



Separate Document

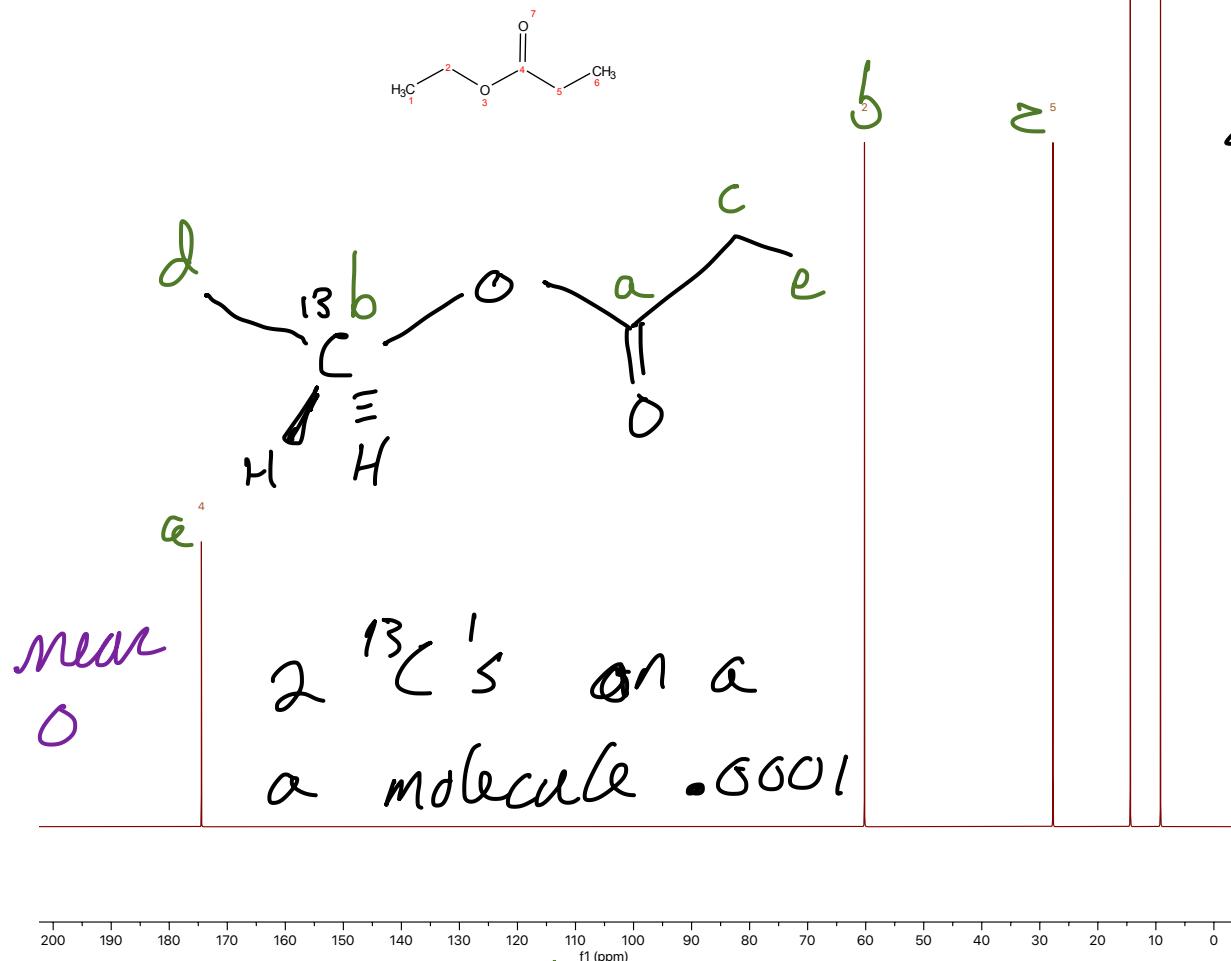
of different types of H atoms Chemical environments of the H atoms
 integration

How many of each type of H atom # of H atom neighbors
 multiplicity

^{13}C Are Spin $1/2$ too

1.1 % of C is ^{13}C

Section



of different kinds of C atoms
chemical environment of C atoms

low concentration of ^{13}C means it is harder to "see"
 ^{12}C nuclei resonate proton decoupled
 ^{13}C NMR just produces singlet

decoupling also destroys the integration

