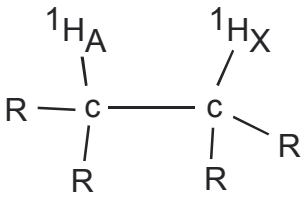
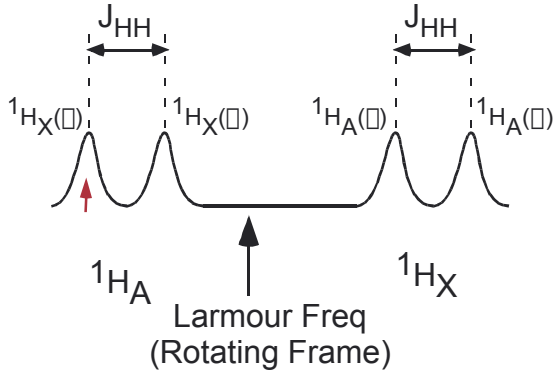
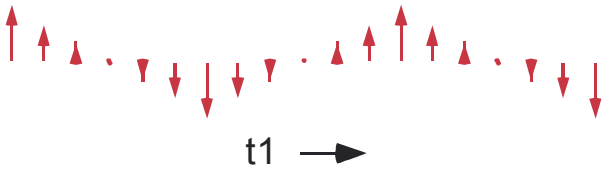
COSY Spectroscopy

A not completely correct "explanation"





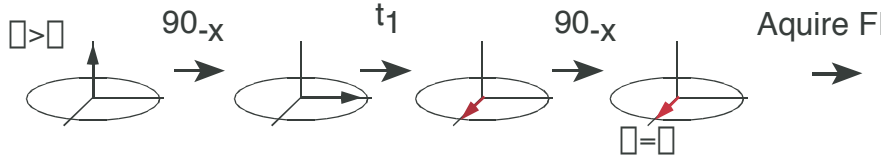
So after the 2nd 90° pulse, spin A looks like this for different values of t1

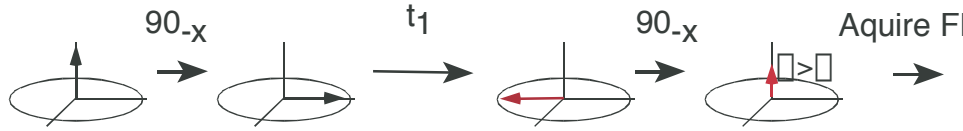


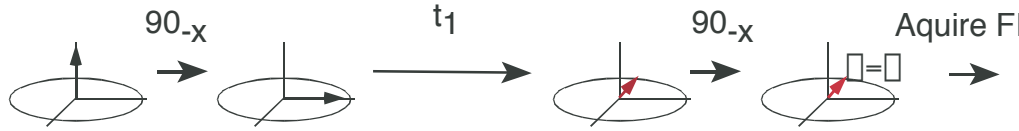
Thus the "neighbor" population that spin X sees is varying with a t1 periodicity.

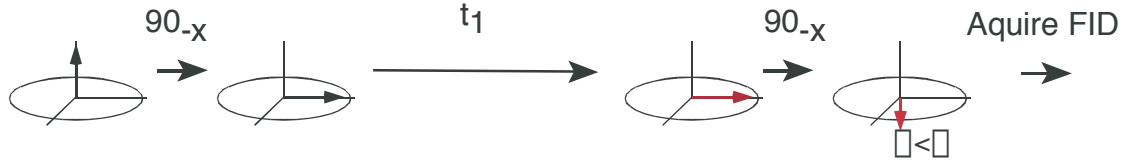
Result: the spectrum of "X" changes according to manipulations of spin "A"

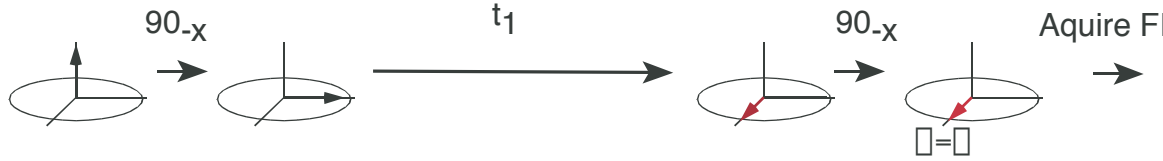
Watch what's happening to spin "A"

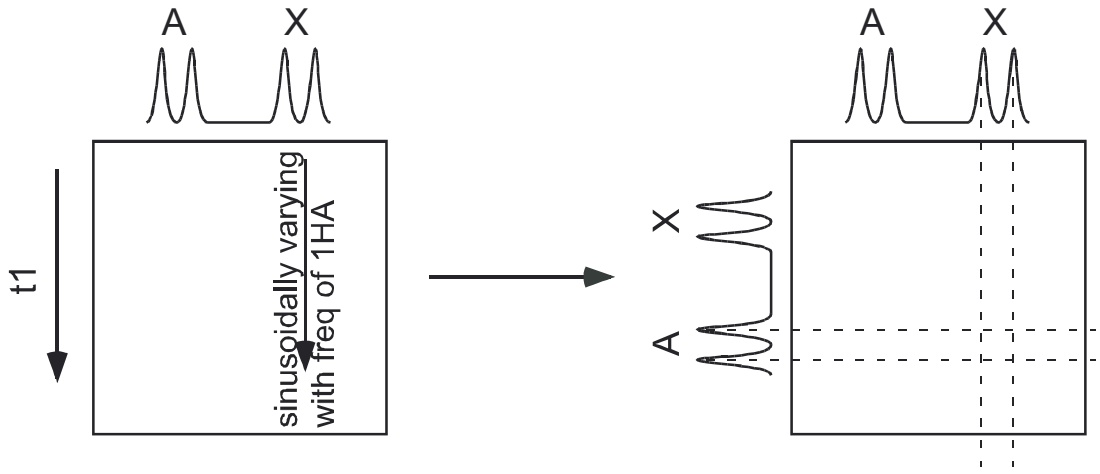












refer to spin populatic
for nucleus "A"

equilibrium is more spins
aligned with (α) than aga
the field.