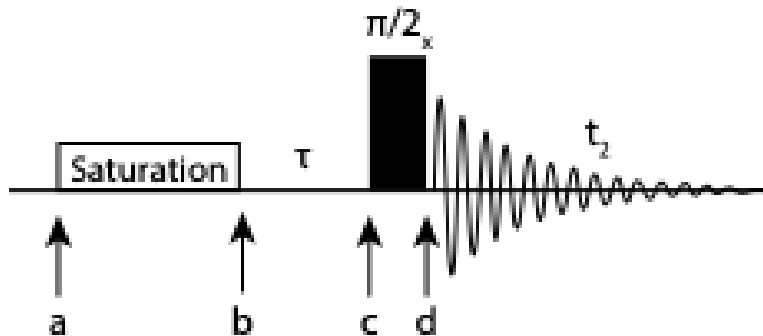


Jigsaw 5B

Vector model: Saturation recovery

The saturation recovery sequence is given below. The saturation block applies a series of pulses which randomly orient the spins to “kill” the net magnetization.



1. Use vector diagrams to show what happens during the saturation recovery sequence.

2. At each point indicated by arrows, fill in the values of magnetization along the x, y, and z directions in the table below. Use M_{eq} to represent the equilibrium magnetization. *Hint:* Remember the Bloch equations. *Second hint:* There will be a lot of variables.

	a	b	c	d
M_x				
M_y				
M_z				

