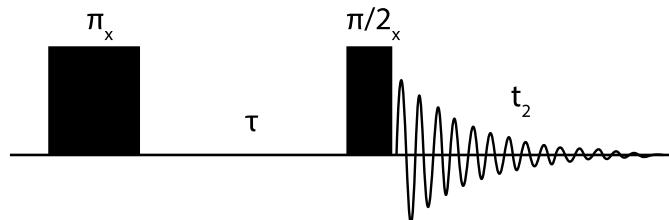


Jigsaw 3B

1. * [Keeler Section 9.5] The pulse sequence of the inversion recovery experiment is shown below.



- a. Use the vector model to explain what happens in a spectrum observed in t_2 when the delay τ , in the pulse sequence, is varied.
- b. Draw the expected signal intensity during t_2 as a function of τ .
- c. What kind of information can be extracted from a series of experiments with different τ ?
2. [From Past Exam] [Keeler Section 8.4] By looking at the DQF-COSY spectra below and by knowing the assignment of proton 10, assign what you can. Why is not possible to assign all the peaks?

