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use this approach of thinking about

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energy levels and the transitions between them. Rather, we use different rules for working out the appearance of multiplets and so on. However, it is use-ful, especially for understanding more complex experiments, to think about

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The NMR signal intensity  $S_{\text{NMR}}$  in such an experiment varies as  $S_{\text{NMR}}$

$$\sin(\omega_p t) = \sin(\omega_1 t + \omega_{\text{RF}} t + \phi), \quad (5.51)$$

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with a maximal NMR signal  $S_{\max}$   
NMR at  $\rho = 90^\circ$   $90$ , crossing  
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Chemistry, University of Cambridge,  
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sections on C-13 NMR and proton  
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entirely independent of each other.

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Obviously I have no way of telling whether you need one of these or both - and if both, what order you need to do them in.

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This course is aimed at those who are already familiar with using NMR on a day-to-day basis, but who wish to deepen their understanding of how NMR experiments work and the theory behind them.

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James Keeler of the University of  
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assumed that you are familiar with the concepts of chemical shifts and couplings, and are used to interpreting proton and  $^{13}\text{C}$  spectra.

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Includes bibliographical references  
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978-0-470-74609-7(cloth) – ISBN

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