

- AS nuclear magnetic vector rotate on xy plane, they can interact and 'fan out' or dephase. This can lead to overall magnetisation of zero.

Rate constant for this process is labelled R_2 and associated transverse relaxation time constant is T_2 , $T_2 = 1/R_2$.

- However, apparent spin-spin relaxation time constant can be affected by the operation of NMR machine itself, the apparent values are labelled R_2^* and T_2^* .

- T_2 is very short in solids (approx. 10^{-4} s) and in liquids T_2 approximately equals T_1 . T_2 can never be greater than T_1 .

Preview from Notesale.co.uk
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