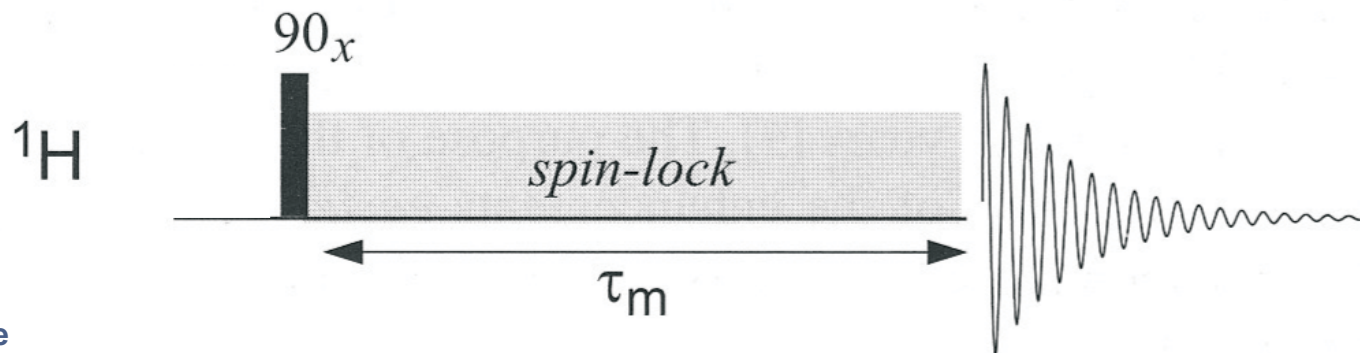


Review - TOCSY and Scalar Coupling

- ◆ ***Spin-locking*** the magnetization scales the chemical shift to near-zero (in Hz), producing strong coupling.

TOCSY



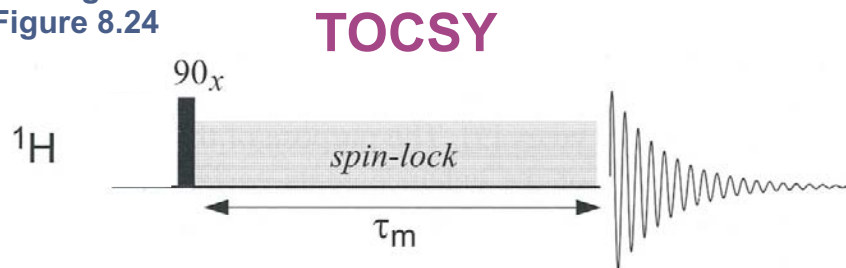
Claridge
Figure 8.24

Review - TOCSY and Scalar Coupling

- ◆ **Spin-locking** the magnetization scales the chemical shift to near-zero (in Hz), producing strong coupling.

Strongly coupled protons exchange magnetization once every $\sim 1/2J$.

Claridge
Figure 8.24



Claridge

Figure 5.62 A schematic illustration of events during spin-lock mixing. All chemical shift differences between spins are eliminated yet all spin-spin couplings between them remain. This forces the *strong-coupling* condition on all spins (see text).

