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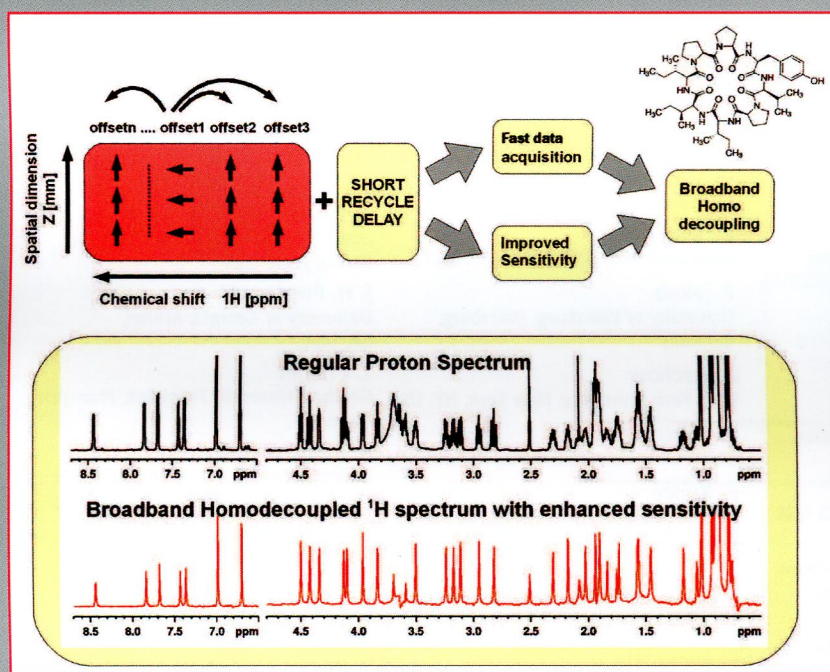


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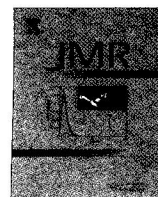


A Zangger-Sterk based Broadband homodecoupling technique is described, which uses a fast pulsing approach to either speed up the acquisition time or to increase the signal-to-noise ratio per unit time. After each scan, the offset of the selective shaped pulse is changed to access fresh magnetisation from adjacent frequency/spatial regions.

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