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A homonuclear shift correlated and spatially localized spectroscopy using stimulated echoes

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A new method which combines localized high-resolution proton NMR spectroscopy with two-dimensional correlated spectroscopy using stimulated echoes is presented. Stimulated-echo correlated spectroscopy (STECSY) is a straightforward extension of the STEAM method. Experiments with phantoms illustrate the efficacy of STECSY. An in situ application on rat adipose tissue demonstrates that STECSY is a helpful tool with which to select and assign resonances in complex ¹H NMR spectra.

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