

Multidimensional spectroscopy probes the members of the ensemble at multiple time points, so it provides more information about their individual trajectories than a 1D spectrum can.

Multidimensional coherent spectroscopy (MDCS) is a technique that unfolds the optical response of a mixed substance in two or more spectral dimensions. MDCS reveals the correlations between ...

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The basic idea of multidimensional spectroscopy is that we can observe the coupling between transitions in condensed phase molecules. The coupling is highly dependent on distance and angles so we can ...

This book reviews coherent multidimensional spectroscopy and its applications in (bio)chemistry, biophysics, molecular physics and materials science. It details experimental methods to help develop ...

NMR-spectroscopy observes the resonance interaction of atomic nuclei with electromagnetic waves. The effect is only detectable in a strong magnetic field. Every atomic nucleus is observed separately ...

We describe the development of the Multispectral Multidimensional Nonlinear Spectrometer (MMDS) to enable studies of dynamical processes in atomic, molecular, and material ...

2D spectroscopy so useful. On the one hand, the ability to explore multiple pathways simultaneously can speed-up data acquisition, and the analysis of 2D peak shapes can provide more informatio



Principle of Multidimensional Spectrometer

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