

INFRARED HIGH RESOLUTION COHERENT 2D SPECTROSCOPY

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High resolution coherent multidimensional spectroscopy is a powerful tool that can be used to overcome difficulties encountered when using 1D spectroscopy. The 2D spectra have reduced congestion and show easily recognizable patterns, even for molecules that yield patternless 1D spectra. Furthermore, the peaks are automatically sorted by quantum number and species. A new infrared version of this technique has been developed. This talk provides background behind how the technique works and how to interpret the results.