

Journal of Chemical Physics 2004 vol.120 N3, pages 1361-1368

Applications of π -photon-induced transparency in two-frequency pulse electron paramagnetic resonance experiments

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Abstract

Bichromatic pulses were demonstrated to substitute the second mw source both in stimulated soft electron spin echo envelope modulation (SS-ESEEM) and four-pulse double electron-electron resonance (DEER) experiments. As such, the results were compared to those obtained using traditional techniques. The behavior of bichromatic pulses which fulfill the transparency or near-transparency condition was investigated, and recommendations for obtaining optimum results were given.

<http://dx.doi.org/10.1063/1.1633259>
