Missing levels lead to additional lines:

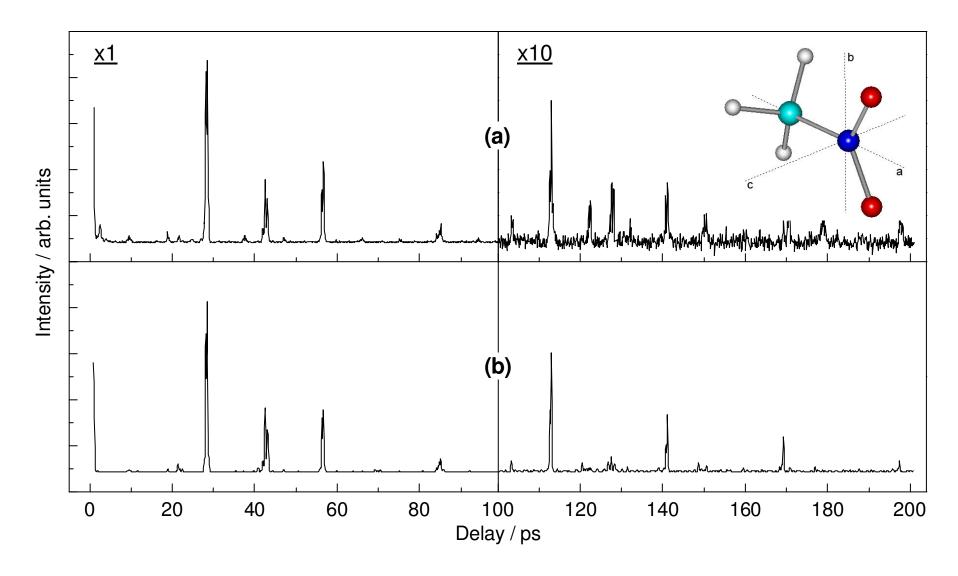
the influence of nuclear spin statistics on femtosecond degenerate four wave mixing spectroscopy of polyatomic systems

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Picture. Experimental (a) and simulated (b) fs DFWM spectra of nitromethane