Weak-field coherent control of photodissociation in polyatomic molecules †

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Supplementary Information



Fig. S1 Behavior of different observables with the time delay Δt between the two excitation pulses of the laser field of Eq (3) for the vibrational state v' = 1 of the CH₃ fragment. (a) Final populations in the I* and I dissociation channels. (b) Branching ratio I*/I between the final populations in the I* and I dissociation channels. (c) Anisotropy parameter β associated with the angular distribution produced by dissociation through the I* channel. (d) Same as panel (c) for the I channel.



Fig. S2 Behavior of different observables with the time delay Δt between the two excitation pulses of the laser field of Eq (3) for the vibrational state v' = 2 of the CH₃ fragment. (a) Final populations in the I* and I dissociation channels. (b) Branching ratio I*/I between the final populations in the I* and I dissociation channels. (c) Anisotropy parameter β associated with the angular distribution produced by dissociation through the I* channel. (d) Same as panel (c) for the I channel.