

Electronic Supplementary Information

Multiscale Excited State Lifetimes in Protonated Dimethylaminopyridines

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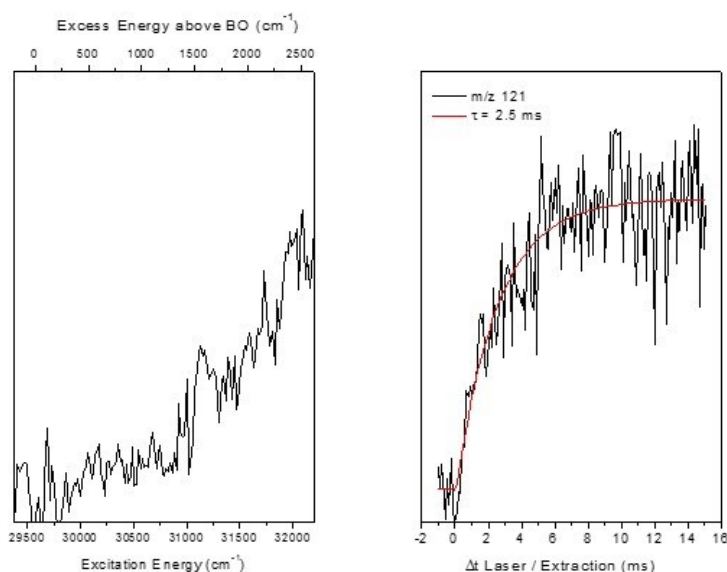


Fig. SI1. 1-color excitation spectrum of 2-DMAPH⁺ recorded on the m/z 121 fragment. The onset of the fragmentation yield starts about 1500 cm⁻¹ above the band origin. (Right) Fragmentation kinetics for this fragment fitted with a time constant of 2.5 ± 0.2 ms.

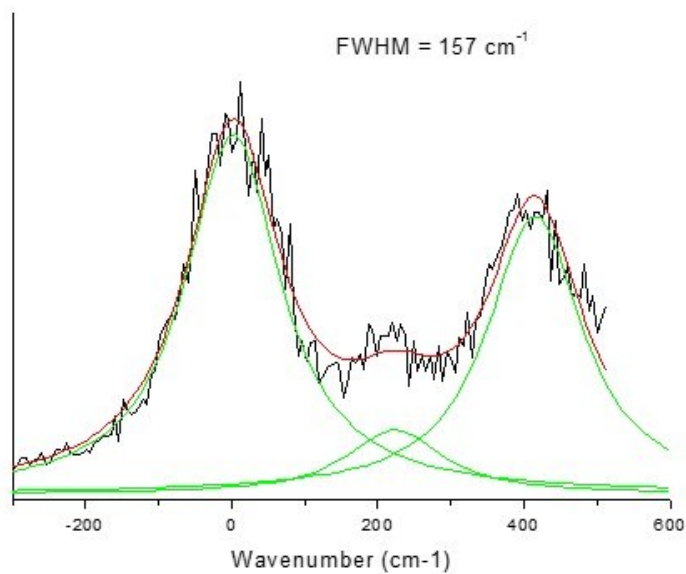


Fig. SI2. Low energy part of the electronic spectrum of 4-DMAPH⁺ fitted with 3 Lorentzian peaks of same width (157 cm⁻¹) centered at 0, 223 and 415 cm⁻¹.

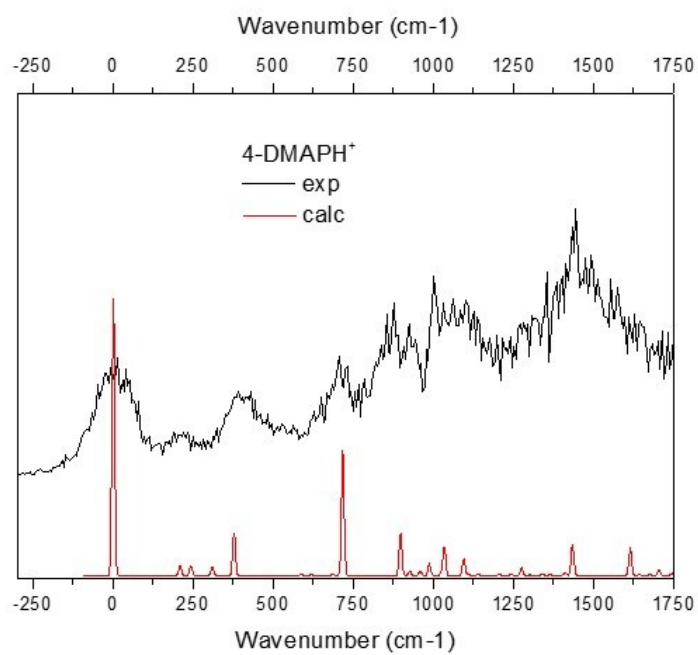


Fig. SI3. Comparison of the experimental and simulated Franck-Condon spectra of the $\pi\pi^*$ (A_1) excited state of 4-DMAPH⁺.