

Electronic Supplementary Information

Supplementary Material for PCCP
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Gas-phase fluorescence excitation and emission spectroscopy of mass-selected trapped molecular ions

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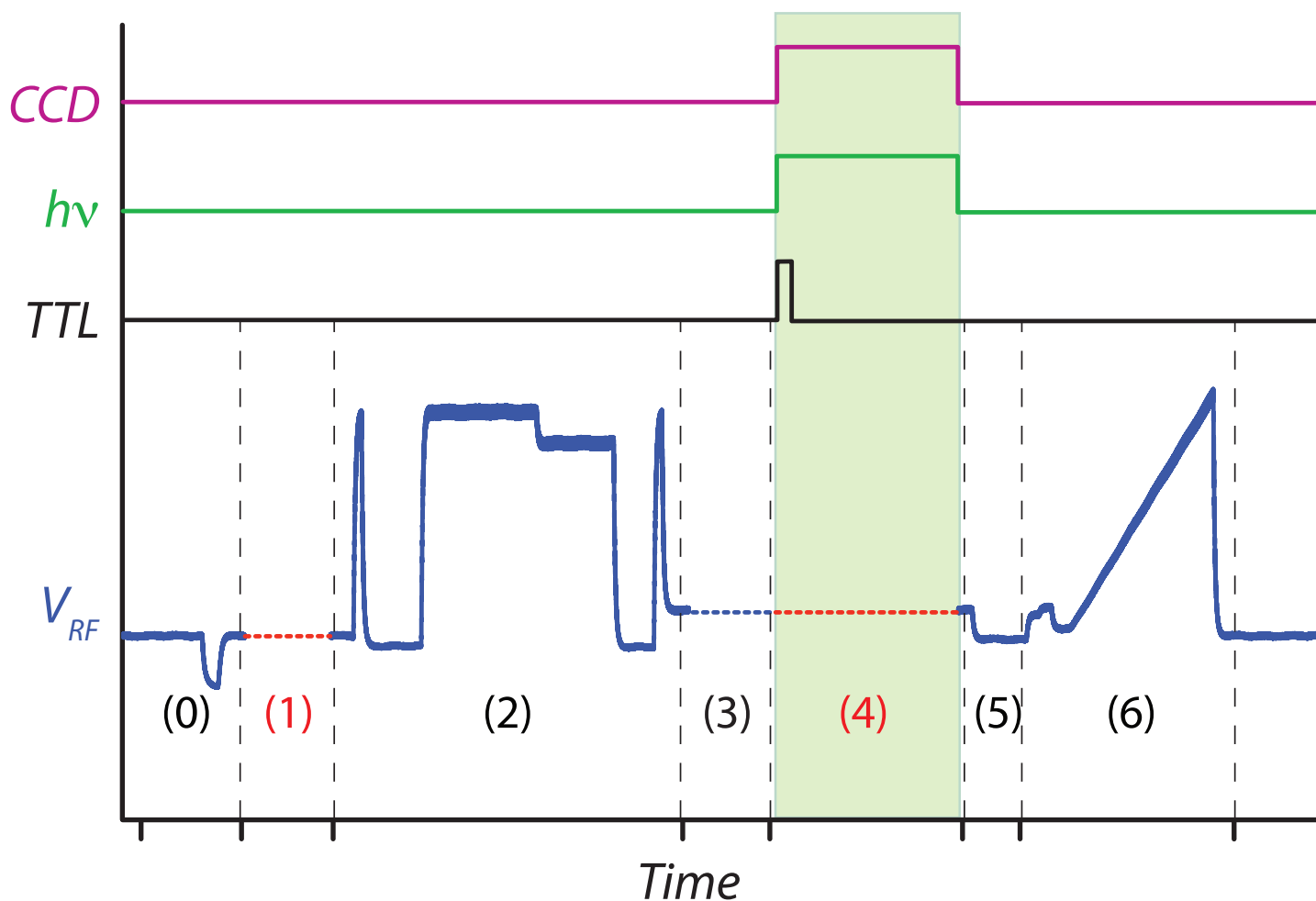


Figure S1. Experimental sequence for fluorescence or photodissociation measurements. V_{RF} represents the amplitude of the RF waveform applied to the ring electrode, TTL is the master trigger from the Esquire 3000+, $h\nu$ represents the duration of the laser pulse and the exposure time of the CCD detector. The scan sequence of the QIT is: (0) Clear trap; (1) Ion accumulation (typically 10-100ms); (2) Ion isolation; (3) Cooling delay (?30ms); (4) Ion irradiation (0- 20s); (5) Scan delay (30ms); (6) Mass-selective instability scan. Dotted lines indicate variable event duration.