STUDYING CHEMISTRY WITH VIBRATIONAL OVERTONE PHOTODISSOCIATION SPECTROSCOPY

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This talk will discuss applications of vibrational overtone photodissociation spectroscopy to problems in molecular reaction dynamics and chemistry of weakly-bound molecules. Specific examples from the past research experience of the presenter will include: i) vibrationally-mediated photodissociation of water dimer and Argon-water complexes; ii) predissociation spectroscopy of HOONO isomer of nitric acid; iii) overtone photodissociation of peroxynitric acid (PNA).