AMMONIA CLUSTER DISSOCIATION VIA NH STRETCH EXCITATION

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Ammonia clusters were formed in a supersonic expansion and interrogated with IR light in the NH stretching region. The ammonia molecules resulting from vibrational predissociation were detected using (2+1) resonance enhanced multiphoton ionization (REMPI) through the $\tilde{B}$ state. By monitoring various rotational levels of ammonia, we have also obtained an IR spectrum for the multiple clusters formed in our molecular beam.