GAS PHASE ELECTRONIC PHOTODISSOCIATION SPECTRA OF COPPER NITRATE CLUSTER IONS

SYDNEY H. KAUFMAN, <u>CASEY R. CHRISTOPHER</u> and J. MATHIAS WEBER, *JILA*, *NIST and Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309*.

We report UV photodissociation action spectra of copper nitrate cluster anions $Cu(NO_3)_3^-$. The parent ion decays upon electronic excitation by loss of neutral NO_3 fragment. THe gas phase spectrum is similar to but slightly more structured than UV absorption spectra of solutions of the parent salt $Cu(NO_3)_2$. We discuss our experimental results in the framework of quantum chemical calculations.