RYDBERG STATE SPECTROSCOPY OF BORON HYDRIDE RADICALS.

JASON CLARK and EDWARD R. GRANT, *Department of Chemistry, Purdue University, West Lafayette, IN 47907-1393*.

Ionization detected electronic absorption spectra of radical boron hydrides will be reported. BH_x radicals are produced by ArF (193 nm) photolysis of B_2H_6 in a supersonic pulsed-jet. Ions are mass-resolved and detected using a time-of-flight mass spectrometer. Various Rydberg states of BH and BH_2 will be discussed.