RYDBERG STATES OF BORON HYDRIDE RADICALS BH AND BH_2.

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Ionization detected absorption spectra of Rydberg states for BH and BH_2 will be reported. Boron hydride radicals are produced by ArF (193 nm) photolysis of B_2H_6 (diborane) in a supersonic pulsed-jet. Ions produced by Resonance-Enhanced Multiphoton Ionization are mass selected and detected using a time-of-flight mass spectrometer. Various Rydberg states appearing as resonant features between 370 and 500 nm will be discussed.