Title:	Autodetachment in H2- : A Franck-Condon Approach
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Abstract:	Effective potentials are calculated for different values of J, the rotational angular momentum quantum number, from accurate potential energy curves of the X2E+u state of the molecular hydrogen anion (H2-). The bound states of these effective potentials are determined numerically. Autodetachment in H2- is studied from a Franck-Condon perspective. The states with maximum probability of transition from H2- to H2 are identified. The photodetachment cross section of H{ 2 is calculated as a function of photon energy.
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