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Effect of a triplet to singlet state interaction on photofragmentation dynamics: Highly excited states of HBr probed by VMI and REMPI as a case study

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Supporting information

Content: page:

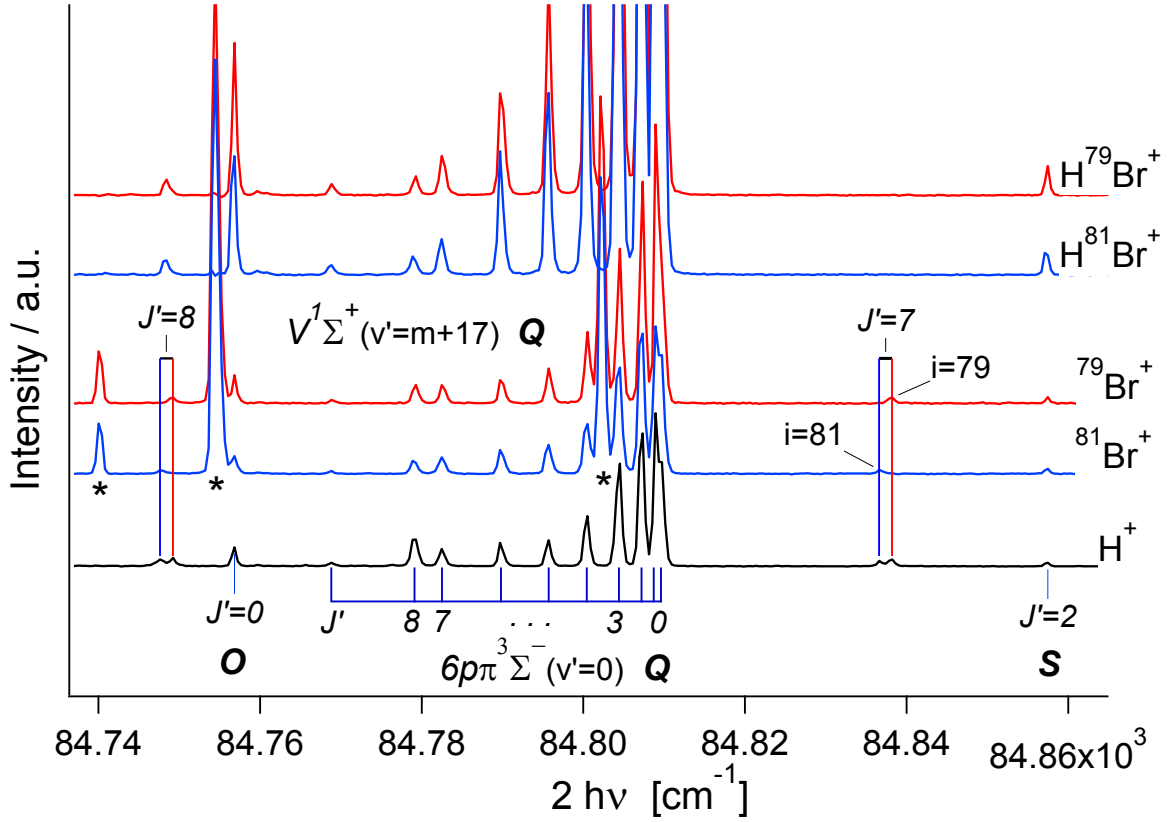
Intensity / a.u.
H79Br+
H81Br+
79Br+
81Br+
H+
J'=8
V1Σ+(v'=m+17) Q
J'=7
i=79
i=81
*
*
*
J'=0
J'
8 7 . . . 3 0
J'=2
O
6pπ3Σ−(v'=0) Q
S
84.74
84.76
84.78
84.80
84.82
84.84
84.86x10^3
2 hν [cm-1]

Fig. S1

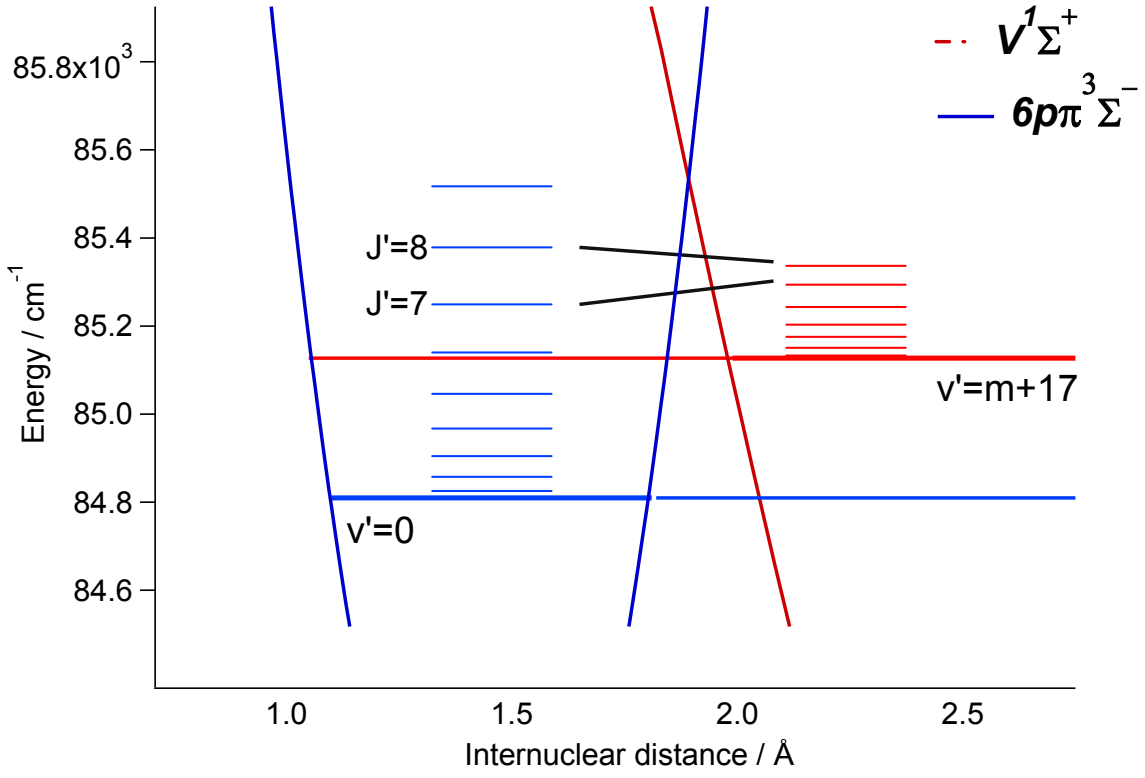
V1Σ+
6pπ3Σ−
85.8x10^3
85.6
85.4
85.2
85.0
84.8
84.6
Energy / cm-1
J'=8
J'=7
v'=m+17
v'=0
1.0
1.5
2.0
2.5
Internuclear distance / Å

Fig. S2

References

1. A. Banichevich, R. Klotz and S. D. Peyerimhoff, *Molecular Physics*, 1992, **75**, 173-188.

2. Á. Logadóttir, Á. Kvaran and H. Wang, *J. Chem. Phys.*, 2000, **112**, 10811-10820.