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【221】 Photodissociation Cross Section of Cesium Iodide Clusters

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The photodissociation cross section of different $\text{Cs}_n\text{I}_{n-1}^+$ ($n < 8$) clusters is measured in a commercial Bruker 9.4 T ICR, where the fragmentation is obtained by directly irradiating the CsI clusters in the ICR cell with a tunable EKSPLA NT 342B UV/VIS OPO. A wavelength range of 225 to 350 nm is covered, where dissociation is found from 225 up to 260 - 290 nm (depending on the cluster size).

The partial photodissociation cross section for every fragment is calculated and furthermore a comparison with the photodissociation cross section of Cs_2I^+ with a theoretically calculated spectrum is done.

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