SPECTROSCOPY AND DYNAMICS OF THE $\widetilde{A}\,^2\mathrm{A}''$ STATE OF VINYL RADICAL

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The vibrational structure of the $\widetilde{A}\,^2\mathrm{A}''$ state of vinyl radical has been investigated by photofragment detection. The subsequent dynamics from the $\widetilde{A}\,^2\mathrm{A}''$ state were elucidated with ion imaging, revealing the partitioning of energy between the products, H and C_2H_2. Results will be discussed in comparison to recent theoretical predictions.