

## SPECTROSCOPY AND DYNAMICS OF THE $\tilde{A}^2A''$ STATE OF VINYL RADICAL

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