

# Observation of Ultrafast Intersystem Crossing in Thymine by Extreme Ultraviolet Time-Resolved Photoelectron Spectroscopy

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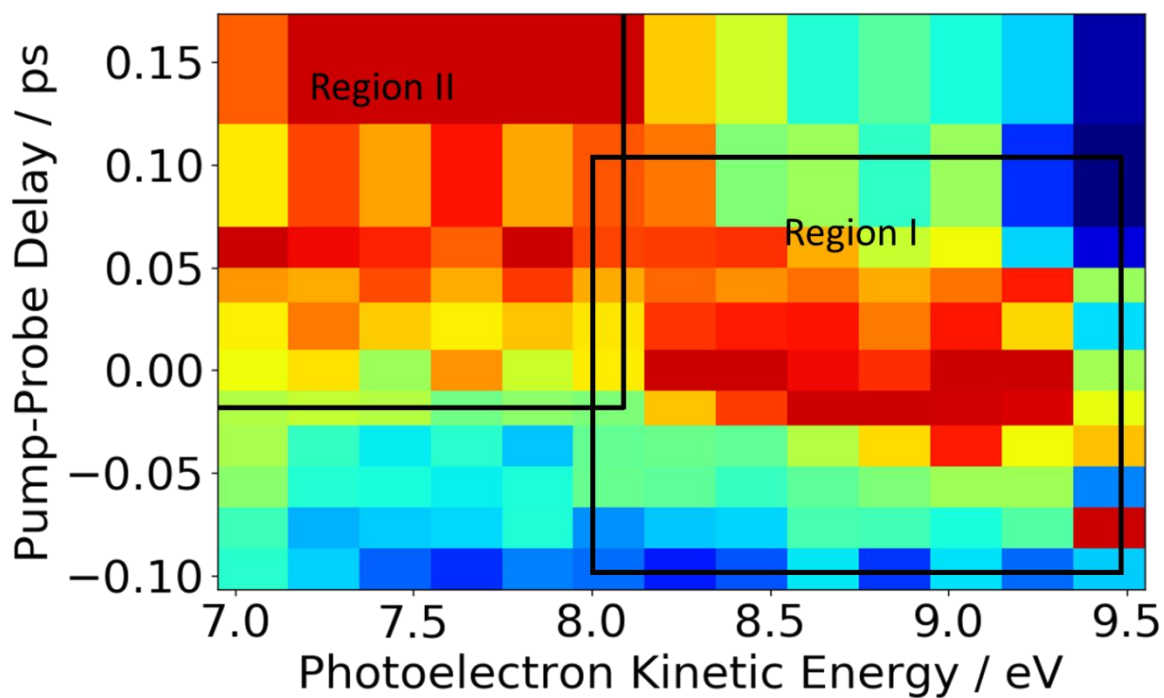
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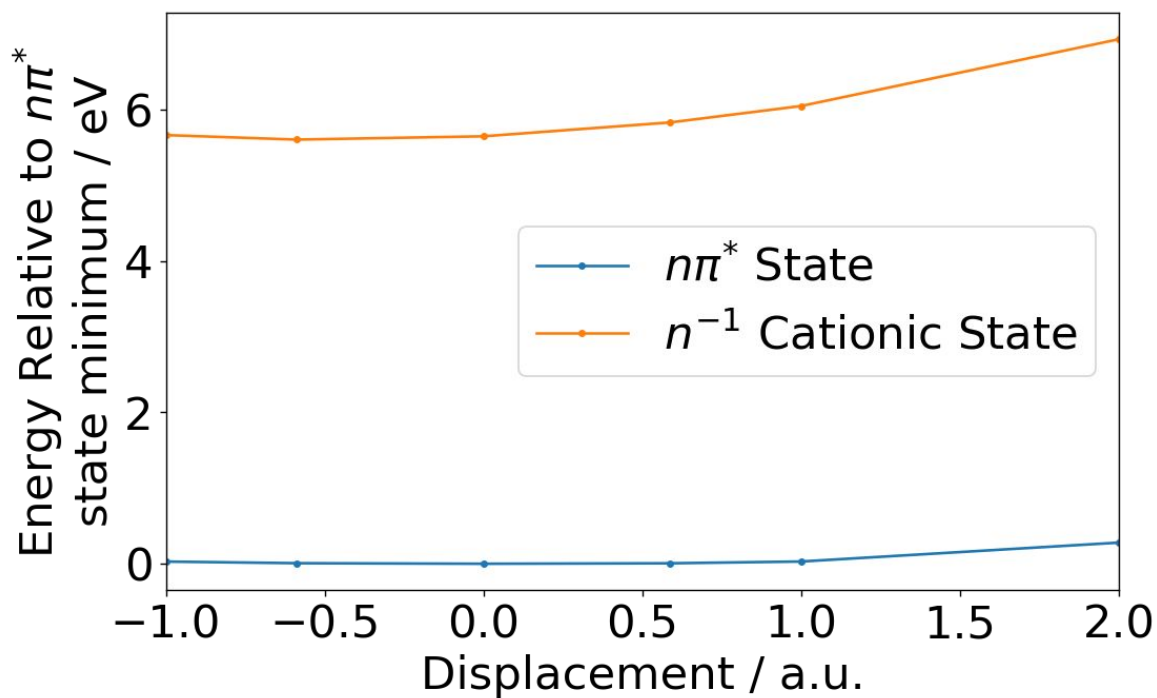
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## Supporting Information



**Figure S1:** Representation of the time-resolved photoelectron spectra with each photoelectron kinetic energy slice normalized to its maximum. The signature in region I shows a clear tilt towards lower photoelectron kinetic energies and later delay times.



**Figure S2:** Results from a scan of the lowest vibrational mode of the  $n\pi^*$  minimum of thymine. The curvature of the Koopmans-correlated cationic state is considerably stronger than the  $n\pi^*$  state. The photoelectron band center is therefore crucially sensitive to the wavepacket distribution in the  $n\pi^*$  state and cannot be simply compared to the ionization potential at the minimum geometry.