Quantum Dynamics in Tailored Intense Fields

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Imprints of the molecular electronic structure in the photoelectron spectra of strong-field ionized asymmetric triatomic model molecules

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We examine the circular dichroism in the photoelectron momentum distribution of triatomic model systems ionized by strong-field ionization. We demonstrate how the symmetry and electronic structure of the system is imprinted into the photoelectron momentum distribution. We use classical trajectories to reveal the origin of the three-folded pattern in the photoelectron momentum distribution, and show how an asymmetric nuclear configuration of the triatomic system effects the CDAD.

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