Quantum Dynamics in Tailored Intense Fields

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Subcycle Interference upon Tunnel Ionization by Counterrotating Circularly Polarized Two-Color Laser Fields

Wednesday 14 February 2018 17:00 (2 hours)

We report on our results on studying single ionization of helium in counterrotating circular two-color (CRTC) laser fields (780 nm & 390 nm) with overall intensities of up to 8*10^14 W/cm^2. The three dimensional momenta of the fragments are recorded using Cold Target Recoil Ion Momentum Spectroscopy (COLTRIMS) as experimental technique. We present our new results regarding single photoelectron interferences that are investigated in three dimensional momentum space. Further we discuss new insights regarding the low energy structure of the photoelectron in CRTC laser fields.

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