

Quantum Dynamics in Tailored Intense Fields

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Strong-field polarization-state control of higher harmonics generated in crystalline solids

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We analyse the polarization states of high-harmonics generated with strong elliptical laser pulses in silicon. We find that the polarization states are dependent both on crystal symmetries and nonperturbative dynamics. Circular harmonics can be generated with circular and non-circular drivers which could pave the way to relatively simple sources of circular XUV pulses.

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