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Revelation of Properties of the Plasmonic Field Using Bichromatic Circularly Polarized Laser Fields

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Plasmonically enhanced field exhibits a great potential to extend the energy-cutoff of the high-order harmonic generation (HHG). In addition, in recent years, circularly polarized harmonics were generated using bichromatic circularly polarized laser fields. In this work, we combine the two approaches and study the HHG process driven by plasmonically enhanced bichromatic circularly polarized laser fields. We show that not only the harmonic energy-cutoff is increased, but also that the polarization of emitted harmonics becomes energy dependent. This dependence is determined by the direction and the strength of the applied plasmonic field.

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