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Electrons with Equal Energy Emitting Back-to-back in Single Photon Double Ionization of Helium

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Single photon double ionization of helium at photon energies of 440 eV and 800 eV is numerically simulated beyond the dipole approximation. Distributions of ion momentum is in accordance with the experimental results. We also calculated the angular correlation spectrum in the coplanar geometer with equal energy sharing, in which interference between dipole and nondipole paths is included.

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