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Two-color Double-hand Attoclock Photoelectron Interferometry

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We use the two-color (400 nm + 800 nm) co-rotating circularly polarized laser fields to ionize argon atoms. In this double-hand attoclock, we introduce a spatially rotating temporal Young's two-slit interferometer with the variable slit width, in which the oppositely modulated wave packets originating from consecutive laser cycles are dynamically prepared and interfered. Developing a Fourier-transform algorithm on energy-resolved photoelectron interferograms, we can directly extract the amplitude and the phase of emitting electron wave packets from strong-field ionization.

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